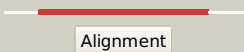

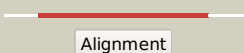

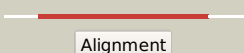

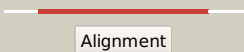

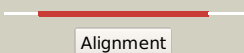

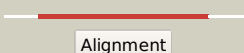

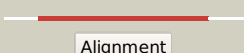


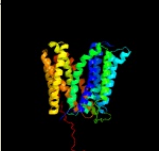


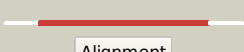

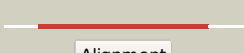













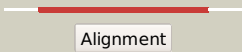
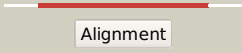
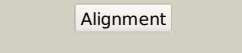
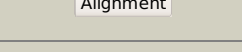
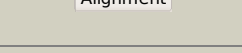
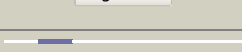


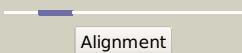
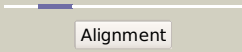
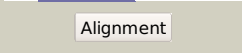


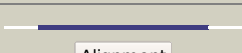

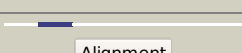

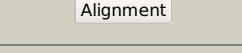
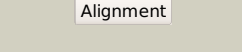

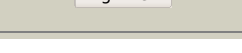

Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2329c_(narK1)_2601924_2603471
Date	Mon Aug 5 13:25:48 BST 2019
Unique Job ID	d0097d34c108cffa

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4iu8A_	 Alignment		100.0	33	PDB header: transport protein Chain: A: PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter (selenomethionine2 derivative)
2	c4iu9A_	 Alignment		100.0	35	PDB header: transport protein Chain: A: PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter
3	d1pw4a_	 Alignment		100.0	13	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: Glycerol-3-phosphate transporter
4	c6e9oA_	 Alignment		100.0	11	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
5	c3o7pA_	 Alignment		100.0	11	PDB header: transport protein Chain: A: PDB Molecule: l-fucose-proton symporter; PDBTitle: crystal structure of the e.coli fucose:proton symporter, fucp (n162a)
6	c4ldsB_	 Alignment		100.0	12	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	c4zp0A_	 Alignment		100.0	12	PDB header: transport protein Chain: A: PDB Molecule: multidrug transporter mdfa; PDBTitle: crystal structure of e. coli multidrug transporter mdfa in complex2 with deoxycholate
8	c3wdoA_	 Alignment		100.0	14	PDB header: transport protein Chain: A: PDB Molecule: mfs transporter; PDBTitle: structure of e. coli yajr transporter
9	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
10	c6h7dA_	 Alignment		100.0	10	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
11	c6gs7A_	 Alignment		100.0	11	PDB header: membrane protein Chain: A: PDB Molecule: dipeptide and tripeptide permease a; PDBTitle: crystal structure of peptide transporter dtpa-nanobody in glycine2 buffer

12	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.
13	c4ybgB_	Alignment		100.0	10	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
14	c6exsA_	Alignment		100.0	9	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.
15	c5c65A_	Alignment		100.0	11	PDB header: transport protein Chain: A: PDB Molecule: solute carrier family 2, facilitated glucose transporter PDBTitle: structure of the human glucose transporter glut3 / slc2a3
16	c4ikyA_	Alignment		100.0	13	PDB header: transport protein Chain: A: PDB Molecule: di-tripeptide abc transporter (permease); PDBTitle: crystal structure of a peptide transporter pot (e310q mutant) in complex2 with sulfate
17	c4j05A_	Alignment		100.0	14	PDB header: transport protein Chain: A: PDB Molecule: phosphate transporter; PDBTitle: crystal structure of a eukaryotic phosphate transporter
18	c4apsB_	Alignment		100.0	10	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.
19	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
20	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
21	d1pv7a_	Alignment	not modelled	100.0	13	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: LacY-like proton/sugar symporter
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	c6ei3A_	Alignment	not modelled	100.0	11	PDB header: membrane protein Chain: A: PDB Molecule: proton-dependent oligopeptide transporter family protein; PDBTitle: crystal structure of auto inhibited pot family peptide transporter
24	c2gfpA_	Alignment	not modelled	100.0	14	PDB header: membrane protein Chain: A: PDB Molecule: multidrug resistance protein d; PDBTitle: structure of the multidrug transporter emrd from2 escherichia coli
25	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
26	c4lepB_	Alignment	not modelled	100.0	11	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
27	c4gbzA_	Alignment	not modelled	100.0	10	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
28	c2xutC_	Alignment	not modelled	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.

29	c5aynA		Alignment	not modelled	99.9	10	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
30	c5aymA		Alignment	not modelled	99.9	9	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	99.6	13	PDB header: transport protein Chain: A: PDB Molecule: equilibrative nucleoside transporter 1; PDBTitle: human equilibrative nucleoside transporter-1, dilazep bound
33	c4djiA		Alignment	not modelled	31.1	6	PDB header: transport protein Chain: A: PDB Molecule: probable glutamate/gamma-aminobutyrate antiporter; PDBTitle: structure of glutamate-gaba antiporter gadc
34	c3mkuB		Alignment	not modelled	26.3	7	PDB header: transport protein Chain: B: PDB Molecule: multi antimicrobial extrusion protein (na+)/drug PDBTitle: structure of a cation-bound multidrug and toxin compound extrusion2 (mate) transporter
35	c5m73H		Alignment	not modelled	20.3	19	PDB header: rna binding protein Chain: H: PDB Molecule: signal recognition particle subunit srp72; PDBTitle: structure of the human srp s domain with srp72 rna-binding domain
36	c3utmC		Alignment	not modelled	14.9	23	PDB header: transferase/signaling protein Chain: C: PDB Molecule: axin-1; PDBTitle: crystal structure of a mouse tankyrase-axin complex
37	c4grvA		Alignment	not modelled	13.7	12	PDB header: signaling protein/agonist chimera; Chain: A: PDB Molecule: neurotensin receptor type 1, lysozyme PDBTitle: the crystal structure of the neurotensin receptor nts1 in complex with2 neurotensin (8-13)
38	c4gnsA		Alignment	not modelled	11.7	27	PDB header: transport protein Chain: A: PDB Molecule: chitin biosynthesis protein chs5; PDBTitle: crystal structure of the chs5-chs6 exomer cargo adaptor complex
39	c4yg8A		Alignment	not modelled	11.7	27	PDB header: transport protein Chain: A: PDB Molecule: chitin biosynthesis protein chs5; PDBTitle: crystal structure of the chs5-chs6 exomer cargo adaptor complex
40	c2l92A		Alignment	not modelled	11.0	24	PDB header: dna binding protein Chain: A: PDB Molecule: histone family protein nucleoid-structuring protein h-ns; PDBTitle: solution structure of the c-terminal domain of h-ns like protein bv3f
41	c5aezA		Alignment	not modelled	10.9	8	PDB header: membrane protein Chain: A: PDB Molecule: mep2; PDBTitle: crystal structure of candida albicans mep2
42	c5t86A		Alignment	not modelled	9.4	21	PDB header: toxin Chain: A: PDB Molecule: cdia toxin; PDBTitle: crystal structure of cdi complex from e. coli a0 34/86
43	c4u3hA		Alignment	not modelled	9.2	19	PDB header: de novo protein Chain: A: PDB Molecule: fn3con; PDBTitle: crystal structure of fn3con
44	c2rqmA		Alignment	not modelled	9.2	18	PDB header: chaperone Chain: A: PDB Molecule: mesoderm development candidate 2; PDBTitle: nmr solution structure of mesoderm development (mesd) - open2 conformation
45	c3mkuA		Alignment	not modelled	7.9	6	PDB header: transport protein Chain: A: PDB Molecule: multi antimicrobial extrusion protein (na+)/drug PDBTitle: structure of a cation-bound multidrug and toxin compound extrusion2 (mate) transporter
46	c2l23A		Alignment	not modelled	7.8	18	PDB header: transcription Chain: A: PDB Molecule: mediator of rna polymerase ii transcription subunit 25; PDBTitle: nmr structure of the acid (activator interacting domain) of the human2 mediator med25 protein
47	d1x4za1		Alignment	not modelled	7.6	21	Fold: Immunoglobulin-like beta-sandwich Superfamily: Fibronectin type III Family: Fibronectin type III
48	c3ukxC		Alignment	not modelled	7.5	25	PDB header: protein transport/inhibitor Chain: C: PDB Molecule: bimax2 peptide; PDBTitle: mouse importin alpha: bimax2 peptide complex
49	c3hd6A		Alignment	not modelled	7.4	6	PDB header: membrane protein, transport protein Chain: A: PDB Molecule: ammonium transporter rh type c; PDBTitle: crystal structure of the human rhesus glycoprotein rhcg
50	c3fdFA		Alignment	not modelled	7.1	27	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: fr253; PDBTitle: crystal structure of the serine phosphatase of rna2 polymerase ii ctd (ssu72 superfamily) from drosophila3 melanogaster. orthorhombic crystal form. northeast4 structural genomics consortium target fr253.
51	c2b2hA		Alignment	not modelled	7.1	11	PDB header: transport protein Chain: A: PDB Molecule: ammonium transporter; PDBTitle: ammonium transporter amt-1 from a. fulgidus (as)
52	c2y94C		Alignment	not modelled	6.8	38	PDB header: transferase Chain: C: PDB Molecule: 5'-amp-activated protein kinase catalytic subunit alpha-1; PDBTitle: structure of an active form of mammalian ampk

53	c5x33A_	Alignment	not modelled	6.5	6	PDB header: membrane protein Chain: A: PDB Molecule: ltb4 receptor,lysozyme,ltb4 receptor; PDBTitle: leukotriene b4 receptor blt1 in complex with bii1260
54	d1u7ka_	Alignment	not modelled	6.5	15	Fold: Retrovirus capsid protein, N-terminal core domain Superfamily: Retrovirus capsid protein, N-terminal core domain Family: Retrovirus capsid protein, N-terminal core domain
55	c3o2sB_	Alignment	not modelled	6.4	36	PDB header: hydrolase Chain: B: PDB Molecule: rna polymerase ii subunit a c-terminal domain phosphatase PDBTitle: crystal structure of the human symplekin-ssu72 complex
56	c4z8vA_	Alignment	not modelled	6.3	18	PDB header: protein binding Chain: A: PDB Molecule: avrrxo1-orf1; PDBTitle: crystal structure of avrrxo1-orf1:-orf2 complex, native.
57	c1zzaA_	Alignment	not modelled	6.2	19	PDB header: membrane protein Chain: A: PDB Molecule: stannin; PDBTitle: solution nmr structure of the membrane protein stannin
58	c3o2qB_	Alignment	not modelled	6.2	36	PDB header: hydrolase Chain: B: PDB Molecule: rna polymerase ii subunit a c-terminal domain phosphatase PDBTitle: crystal structure of the human symplekin-ssu72-ctd phosphopeptide2 complex
59	c2g9pA_	Alignment	not modelled	6.2	14	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
60	c6hwyB_	Alignment	not modelled	6.2	21	PDB header: viral protein Chain: B: PDB Molecule: putative gag polyprotein; PDBTitle: mature mlv capsid pentamer structure in intact virus particles
61	c6nbxG_	Alignment	not modelled	6.0	15	PDB header: oxidoreductase Chain: G: PDB Molecule: nadh-quinone oxidoreductase subunit j; PDBTitle: t.elongatus ndh (data-set 2)
62	c2bbjB_	Alignment	not modelled	5.7	8	PDB header: metal transport/membrane protein Chain: B: PDB Molecule: divalent cation transport-related protein; PDBTitle: crystal structure of the cora mg2+ transporter
63	c6hwwA_	Alignment	not modelled	5.6	21	PDB header: viral protein Chain: A: PDB Molecule: putative gag polyprotein; PDBTitle: immature mlv capsid hexamer structure in intact virus particles
64	d1ejga_	Alignment	not modelled	5.5	25	Fold: Crambin-like Superfamily: Crambin-like Family: Crambin-like
65	c2nuuF_	Alignment	not modelled	5.5	10	PDB header: transport protein/signaling protein Chain: F: PDB Molecule: ammonia channel; PDBTitle: regulating the escherichia coli ammonia channel: the crystal structure2 of the ambt-glnk complex
66	c3lcnC_	Alignment	not modelled	5.4	44	PDB header: nuclear protein Chain: C: PDB Molecule: mrna transport factor gfd1; PDBTitle: nab2:gfd1 complex
67	d1wfuA_	Alignment	not modelled	5.4	15	Fold: Immunoglobulin-like beta-sandwich Superfamily: Fibronectin type III Family: Fibronectin type III
68	c3lcnD_	Alignment	not modelled	5.3	44	PDB header: nuclear protein Chain: D: PDB Molecule: mrna transport factor gfd1; PDBTitle: nab2:gfd1 complex