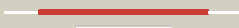


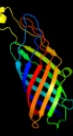
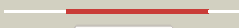
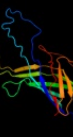















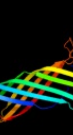








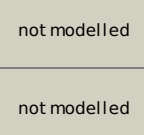


Phyre2

Email	l.a.kelley@imperial.ac.uk
Description	P0A908
Date	Thu Jan 5 11:09:06 GMT 2012
Unique Job ID	ce480ab48932a7cd

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2x27X_	 Alignment		98.9	17	PDB header: membrane protein Chain: X: PDB Molecule: outer membrane protein oprg; PDBTitle: crystal structure of the outer membrane protein oprg from2 pseudomonas aeruginosa
2	c2f1tB_	 Alignment		98.8	14	PDB header: membrane protein Chain: B: PDB Molecule: outer membrane protein w; PDBTitle: outer membrane protein ompw
3	c2k0lA_	 Alignment		98.7	16	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein a; PDBTitle: nmr structure of the transmembrane domain of the outer2 membrane protein a from klebsiella pneumoniae in dhpc3 micelles.
4	d1g90a_	 Alignment		98.3	14	Fold: Transmembrane beta-barrels Superfamily: OMPA-like Family: Outer membrane protein
5	d1p4ta_	 Alignment		98.3	12	Fold: Transmembrane beta-barrels Superfamily: OMPA-like Family: Outer membrane protein
6	d1qjpa_	 Alignment		98.2	18	Fold: Transmembrane beta-barrels Superfamily: OMPA-like Family: Outer membrane protein
7	c2x4mD_	 Alignment		98.0	17	PDB header: hydrolase Chain: D: PDB Molecule: coagulase/fibrinolysin; PDBTitle: yersinia pestis plasminogen activator pla
8	c3nb3C_	 Alignment		97.9	18	PDB header: virus Chain: C: PDB Molecule: outer membrane protein a; PDBTitle: the host outer membrane proteins ompa and ompc are packed at specific2 sites in the shigella phage sf6 virion as structural components
9	c2jmmA_	 Alignment		97.8	19	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein a; PDBTitle: nmr solution structure of a minimal transmembrane beta-2 barrel platform protein
10	c2lhfa_	 Alignment		97.7	15	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein h1; PDBTitle: solution structure of outer membrane protein h (oprh) from p.2 aeruginosa in dhpc micelles
11	c3qraA_	 Alignment		97.7	14	PDB header: cell invasion Chain: A: PDB Molecule: attachment invasion locus protein; PDBTitle: the crystal structure of ail, the attachment invasion locus protein of2 yersinia pestis

12	c2iwwD_	Alignment		97.4	23	PDB header: ion channel Chain: D: PDB Molecule: outer membrane protein g; PDBTitle: structure of the monomeric outer membrane porin ompg in the2 open and closed conformation
13	dli78a_	Alignment		97.3	17	Fold: Transmembrane beta-barrels Superfamily: OMPT-like Family: Outer membrane protease OMPT
14	d1qj8a_	Alignment		97.0	13	Fold: Transmembrane beta-barrels Superfamily: OMPA-like Family: Outer membrane protein
15	c3sljA_	Alignment		95.8	10	PDB header: protein transport Chain: A: PDB Molecule: serine protease espp; PDBTitle: pre-cleavage structure of the autotransporter espp - n1023a mutant
16	c2wjgA_	Alignment		95.2	16	PDB header: transport protein Chain: A: PDB Molecule: probable n-acetylneuraminic acid outer membrane channel PDBTitle: nanc porin structure in hexagonal crystal form.
17	c3aehB_	Alignment		94.1	14	PDB header: hydrolase Chain: B: PDB Molecule: hemoglobin-binding protease hbp autotransporter; PDBTitle: integral membrane domain of autotransporter hbp
18	c2qomB_	Alignment		93.1	16	PDB header: hydrolase Chain: B: PDB Molecule: serine protease espp; PDBTitle: the crystal structure of the e.coli espp autotransporter beta-domain.
19	c3kvnA_	Alignment		91.6	18	PDB header: hydrolase Chain: A: PDB Molecule: esterase esta; PDBTitle: crystal structure of the full-length autotransporter esta from2 pseudomonas aeruginosa
20	c3dwoX_	Alignment		89.0	13	PDB header: membrane protein Chain: X: PDB Molecule: probable outer membrane protein; PDBTitle: crystal structure of a pseudomonas aeruginosa fadl homologue
21	d1uynx_	Alignment	not modelled	87.6	16	Fold: Transmembrane beta-barrels Superfamily: Autotransporter Family: Autotransporter
22	c3qq2C_	Alignment	not modelled	86.7	16	PDB header: membrane protein/protein transport Chain: C: PDB Molecule: brka autotransporter; PDBTitle: crystal structure of the beta domain of the bordetella autotransporter2 brka
23	d2fgqx1	Alignment	not modelled	86.6	14	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Porin
24	c3dzmB_	Alignment	not modelled	86.2	17	PDB header: unknown function Chain: B: PDB Molecule: hypothetical conserved protein; PDBTitle: crystal structure of a major outer membrane protein from thermus2 thermophilus hb27
25	d1t16a_	Alignment	not modelled	85.9	15	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Outer membrane protein transport protein
26	c2iahA_	Alignment	not modelled	75.1	14	PDB header: membrane protein Chain: A: PDB Molecule: ferripyoverdine receptor; PDBTitle: crystal structure of the ferripyoverdine receptor of the outer2 membrane of pseudomonas aeruginosa bound to ferripyoverdine.
27	c3a2rX_	Alignment	not modelled	74.6	16	PDB header: membrane protein Chain: X: PDB Molecule: outer membrane protein ii; PDBTitle: crystal structure of outer membrane protein porb from neisseria2 meningitidis
28	c3brzA_	Alignment	not modelled	69.0	13	PDB header: transport protein Chain: A: PDB Molecule: todx; PDBTitle: crystal structure of the pseudomonas putida toluene2 transporter todx

29	d2zfga1	Alignment	not modelled	64.5	11	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Porin
30	d1osma_	Alignment	not modelled	47.8	17	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Porin
31	c3bryB_	Alignment	not modelled	45.0	8	PDB header: transport protein Chain: B: PDB Molecule: tbux; PDBTitle: crystal structure of the ralstonia pickettii toluene2 transporter tbux
32	c3efmA_	Alignment	not modelled	42.3	10	PDB header: membrane protein Chain: A: PDB Molecule: ferric alcaligin siderophore receptor; PDBTitle: structure of the alcaligin outer membrane recepteur faua from2 bordetella pertussis
33	d1tIya_	Alignment	not modelled	36.3	14	Fold: Transmembrane beta-barrels Superfamily: Tsx-like channel Family: Tsx-like channel
34	c3nsgA_	Alignment	not modelled	31.4	16	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein f; PDBTitle: crystal structure of ompf, an outer membrane protein from salmonella2 typhi
35	c1xkHC_	Alignment	not modelled	31.3	15	PDB header: membrane protein Chain: C: PDB Molecule: ferripyoverdine receptor; PDBTitle: pyoverdine outer membrane receptor fpva from pseudomonas aeruginosa2 pao1 bound to pyoverdine
36	d1a0tp_	Alignment	not modelled	26.1	16	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Maltoporin-like
37	c3cslB_	Alignment	not modelled	25.2	12	PDB header: membrane protein/heme binding protein Chain: B: PDB Molecule: hasr protein; PDBTitle: structure of the serratia marcescens hemophore receptor hasr in2 complex with its hemophore hasa and heme
38	d2gufa1	Alignment	not modelled	24.8	13	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Ligand-gated protein channel
39	d3prna_	Alignment	not modelled	21.3	19	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Porin
40	c3qlbA_	Alignment	not modelled	12.4	9	PDB header: metal transport Chain: A: PDB Molecule: enantio-pyochelin receptor; PDBTitle: enantiopyochelin outer membrane tonb-dependent transporter from2 pseudomonas fluorescens bound to the ferri-enantiopyochelin
41	d2vdfa1	Alignment	not modelled	11.1	14	Fold: Transmembrane beta-barrels Superfamily: OMPT-like Family: Outer membrane adhesin/invasin OpcA
42	c2gr7C_	Alignment	not modelled	9.7	17	PDB header: membrane protein Chain: C: PDB Molecule: adhesin; PDBTitle: hia 992-1098
43	d2gr7a1	Alignment	not modelled	9.7	17	Fold: Pili subunits Superfamily: Pili subunits Family: YadA C-terminal domain-like
44	c2c4iA_	Alignment	not modelled	9.3	27	PDB header: glycoprotein Chain: A: PDB Molecule: avidin; PDBTitle: crystal structure of engineered avidin
45	c3oiqB_	Alignment	not modelled	8.8	55	PDB header: protein binding Chain: B: PDB Molecule: dna polymerase alpha catalytic subunit a; PDBTitle: crystal structure of yeast telomere protein cdc13 ob1 and the2 catalytic subunit of dna polymerase alpha pol1
46	d1phoa_	Alignment	not modelled	8.3	15	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Porin
47	c2grxB_	Alignment	not modelled	5.9	15	PDB header: metal transport Chain: B: PDB Molecule: ferrichrome-iron receptor; PDBTitle: crystal structure of tonb in complex with fhua, e. coli2 outer membrane receptor for ferrichrome
48	c2hdiA_	Alignment	not modelled	5.9	15	PDB header: protein transport, antimicrobial protein Chain: A: PDB Molecule: colicin i receptor; PDBTitle: crystal structure of the colicin i receptor cir from e.coli in complex2 with receptor binding domain of colicin ia.