





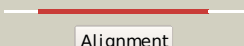

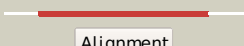

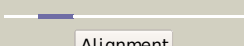

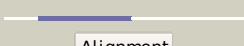

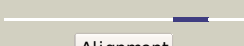






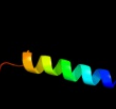


# Phyre2

Email	l.a.kelley@imperial.ac.uk
Description	P52600
Date	Thu Jan 5 12:05:50 GMT 2012
Unique Job ID	f3d66b128fa44656

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">d1pw4a_</a>	 Alignment		100.0	13	<b>Fold:</b> MFS general substrate transporter <b>Superfamily:</b> MFS general substrate transporter <b>Family:</b> Glycerol-3-phosphate transporter
2	<a href="#">c2gfpA_</a>	 Alignment		100.0	16	<b>PDB header:</b> membrane protein <b>Chain:</b> A: <b>PDB Molecule:</b> multidrug resistance protein d; <b>PDBTitle:</b> structure of the multidrug transporter emrd from2 escherichia coli
3	<a href="#">c3o7pA_</a>	 Alignment		100.0	9	<b>PDB header:</b> transport protein <b>Chain:</b> A: <b>PDB Molecule:</b> l-fucose-proton symporter; <b>PDBTitle:</b> crystal structure of the e.coli fucose:proton symporter, fucp (n162a)
4	<a href="#">c2xutC_</a>	 Alignment		100.0	14	<b>PDB header:</b> transport protein <b>Chain:</b> C: <b>PDB Molecule:</b> proton/peptide symporter family protein; <b>PDBTitle:</b> crystal structure of a proton dependent oligopeptide (pot)2 family transporter.
5	<a href="#">d1pv7a_</a>	 Alignment		100.0	12	<b>Fold:</b> MFS general substrate transporter <b>Superfamily:</b> MFS general substrate transporter <b>Family:</b> LacY-like proton/sugar symporter
6	<a href="#">c2g9pA_</a>	 Alignment		17.9	21	<b>PDB header:</b> antimicrobial protein <b>Chain:</b> A: <b>PDB Molecule:</b> antimicrobial peptide latarcin 2a; <b>PDBTitle:</b> nmr structure of a novel antimicrobial peptide, latarcin 2a,2 from spider (lachesana tarabaevi) venom
7	<a href="#">c3b9yA_</a>	 Alignment		10.0	11	<b>PDB header:</b> transport protein <b>Chain:</b> A: <b>PDB Molecule:</b> ammonium transporter family rh-like protein; <b>PDBTitle:</b> crystal structure of the nitrosomonas europaea rh protein
8	<a href="#">c1wrgA_</a>	 Alignment		7.9	15	<b>PDB header:</b> membrane protein <b>Chain:</b> A: <b>PDB Molecule:</b> light-harvesting protein b-880, beta chain; <b>PDBTitle:</b> light-harvesting complex 1 beta subunit from wild-type2 rhodospirillum rubrum
9	<a href="#">d1fftb2</a>	 Alignment		7.6	14	<b>Fold:</b> Transmembrane helix hairpin <b>Superfamily:</b> Cytochrome c oxidase subunit II-like, transmembrane region <b>Family:</b> Cytochrome c oxidase subunit II-like, transmembrane region
10	<a href="#">c3kziT_</a>	 Alignment		7.3	17	<b>PDB header:</b> electron transport <b>Chain:</b> T: <b>PDB Molecule:</b> photosystem ii reaction center protein t; <b>PDBTitle:</b> crystal structure of monomeric form of cyanobacterial photosystem ii
11	<a href="#">d2axtt1</a>	 Alignment		7.3	17	<b>Fold:</b> Single transmembrane helix <b>Superfamily:</b> Photosystem II reaction center protein T, PsbT <b>Family:</b> PsbT-like

12	<a href="#">c2axfT_</a>	Alignment		7.3	17	<b>PDB header:</b> electron transport <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii reaction center t protein; <b>PDBTitle:</b> crystal structure of photosystem ii from thermosynechococcus elongatus
13	<a href="#">c3a0bt_</a>	Alignment		7.3	17	<b>PDB header:</b> electron transport <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii reaction center protein t; <b>PDBTitle:</b> crystal structure of br-substituted photosystem ii complex
14	<a href="#">c3a0hT_</a>	Alignment		7.3	17	<b>PDB header:</b> electron transport <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii reaction center protein t; <b>PDBTitle:</b> crystal structure of i-substituted photosystem ii complex
15	<a href="#">c3arcT_</a>	Alignment		7.3	17	<b>PDB header:</b> electron transport, photosynthesis <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii reaction center protein t; <b>PDBTitle:</b> crystal structure of oxygen-evolving photosystem ii at 1.9 angstrom2 resolution
16	<a href="#">c2axtt_</a>	Alignment		7.3	17	<b>PDB header:</b> electron transport <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii reaction center t protein; <b>PDBTitle:</b> crystal structure of photosystem ii from thermosynechococcus elongatus
17	<a href="#">c3a0ht_</a>	Alignment		7.3	17	<b>PDB header:</b> electron transport <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii reaction center protein t; <b>PDBTitle:</b> crystal structure of i-substituted photosystem ii complex
18	<a href="#">c1s5lt_</a>	Alignment		7.3	17	<b>PDB header:</b> photosynthesis <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii psbt protein; <b>PDBTitle:</b> architecture of the photosynthetic oxygen evolving center
19	<a href="#">c1s5lT_</a>	Alignment		7.3	17	<b>PDB header:</b> photosynthesis <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii psbt protein; <b>PDBTitle:</b> architecture of the photosynthetic oxygen evolving center
20	<a href="#">c3bz1T_</a>	Alignment		7.2	17	<b>PDB header:</b> electron transport <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii reaction center protein t; <b>PDBTitle:</b> crystal structure of cyanobacterial photosystem ii (part 12 of 2). this file contains first monomer of psii dimer
21	<a href="#">c3bz2T_</a>	Alignment	not modelled	7.2	17	<b>PDB header:</b> electron transport <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii reaction center protein t; <b>PDBTitle:</b> crystal structure of cyanobacterial photosystem ii (part 22 of 2). this file contains second monomer of psii dimer
22	<a href="#">c3prqT_</a>	Alignment	not modelled	7.2	17	<b>PDB header:</b> photosynthesis <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii reaction center protein t; <b>PDBTitle:</b> crystal structure of cyanobacterial photosystem ii in complex with2 terbutryn (part 1 of 2). this file contains first monomer of psii3 dimer
23	<a href="#">c3prrT_</a>	Alignment	not modelled	7.2	17	<b>PDB header:</b> photosynthesis <b>Chain:</b> T; <b>PDB Molecule:</b> photosystem ii reaction center protein t; <b>PDBTitle:</b> crystal structure of cyanobacterial photosystem ii in complex with2 terbutryn (part 2 of 2). this file contains second monomer of psii3 dimer