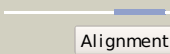

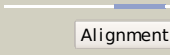

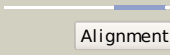





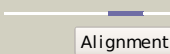

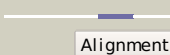

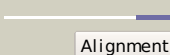


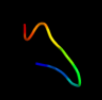
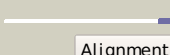

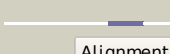












# Phyre2

Email	l.a.kelley@imperial.ac.uk
Description	P25728
Date	Thu Jan 5 11:42:20 GMT 2012
Unique Job ID	0eaf710c0cd310b4

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c2gvsA_</a>	 Alignment		27.5	24	<b>PDB header:</b> lipid binding protein <b>Chain:</b> A: <b>PDB Molecule:</b> chemosensory protein csp-sg4; <b>PDBTitle:</b> nmr solution structure of cspsg4
2	<a href="#">d1kx9b_</a>	 Alignment		25.3	19	<b>Fold:</b> alpha-alpha superhelix <b>Superfamily:</b> Chemosensory protein Csp2 <b>Family:</b> Chemosensory protein Csp2
3	<a href="#">d1n8va_</a>	 Alignment		22.5	19	<b>Fold:</b> alpha-alpha superhelix <b>Superfamily:</b> Chemosensory protein Csp2 <b>Family:</b> Chemosensory protein Csp2
4	<a href="#">d1wm7a_</a>	 Alignment		17.7	56	<b>Fold:</b> Knottins (small inhibitors, toxins, lectins) <b>Superfamily:</b> Scorpion toxin-like <b>Family:</b> Short-chain scorpion toxins
5	<a href="#">d1b25a1</a>	 Alignment		16.3	33	<b>Fold:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains <b>Superfamily:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains <b>Family:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains
6	<a href="#">d1aora1</a>	 Alignment		16.0	44	<b>Fold:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains <b>Superfamily:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains <b>Family:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains
7	<a href="#">c2emcA_</a>	 Alignment		12.4	18	<b>PDB header:</b> transcription <b>Chain:</b> A: <b>PDB Molecule:</b> zinc finger protein 473; <b>PDBTitle:</b> solution structure of the c2h2 type zinc finger (region 641-2 673) of human zinc finger protein 473
8	<a href="#">c2z2qF_</a>	 Alignment		12.0	23	<b>PDB header:</b> virus/rna <b>Chain:</b> F: <b>PDB Molecule:</b> coat protein gamma; <b>PDBTitle:</b> crystal structure of flock house virus
9	<a href="#">c1aorB_</a>	 Alignment		11.5	44	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> aldehyde ferredoxin oxidoreductase; <b>PDBTitle:</b> structure of a hyperthermophilic tungstopterin enzyme,2 aldehyde ferredoxin oxidoreductase
10	<a href="#">d1x6va2</a>	 Alignment		10.9	31	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> ATP sulfurylase catalytic domain
11	<a href="#">c2a05A_</a>	 Alignment		10.7	44	<b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> cysteine-rich secretory protein-2; <b>PDBTitle:</b> the cysteine-rich secretory protein domain of tpx-1 is2 related to ion channel toxins and regulates ryanodine3 receptor ca2+ signaling

12	<a href="#">dljhda2</a>	Alignment		10.2	38	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> ATP sulfurylase catalytic domain
13	<a href="#">c1b4nD_</a>	Alignment		8.9	33	<b>PDB header:</b> oxidoreductase <b>Chain:</b> D: <b>PDB Molecule:</b> formaldehyde ferredoxin oxidoreductase; <b>PDBTitle:</b> formaldehyde ferredoxin oxidoreductase from pyrococcus furiosus,2 complexed with glutarate
14	<a href="#">c1xx5B_</a>	Alignment		8.8	29	<b>PDB header:</b> toxin <b>Chain:</b> B: <b>PDB Molecule:</b> natrin 1; <b>PDBTitle:</b> crystal structure of natrin from naja atra snake venom
15	<a href="#">dlqasa3</a>	Alignment		8.8	22	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> PLC-like phosphodiesterases <b>Family:</b> Mammalian PLC
16	<a href="#">dlv47a2</a>	Alignment		8.7	38	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> ATP sulfurylase catalytic domain
17	<a href="#">c2qjfb_</a>	Alignment		8.2	31	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> bifunctional 3'-phosphoadenosine 5'- <b>PDBTitle:</b> crystal structure of atp-sulfurylase domain of human paps2 synthetase 1
18	<a href="#">d2abka_</a>	Alignment		7.1	38	<b>Fold:</b> DNA-glycosylase <b>Superfamily:</b> DNA-glycosylase <b>Family:</b> Endonuclease III
19	<a href="#">c2kdnA_</a>	Alignment		6.7	21	<b>PDB header:</b> unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> putative uncharacterized protein pfe0790c; <b>PDBTitle:</b> solution structure of pfe0790c, a putative bola-like2 protein from the protozoan parasite plasmodium falciparum.
20	<a href="#">cljhdA_</a>	Alignment		6.5	38	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> sulfate adenyl transferase; <b>PDBTitle:</b> crystal structure of bacterial atp sulfurylase from the2 riftia pachyptila symbiont
21	<a href="#">clxnjb_</a>	Alignment	not modelled	6.4	31	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> bifunctional 3'-phosphosulfate <b>PDBTitle:</b> aps complex of human paps synthetase 1
22	<a href="#">c1du9A_</a>	Alignment	not modelled	6.4	63	<b>PDB header:</b> toxin <b>Chain:</b> A: <b>PDB Molecule:</b> bmp02 neurotoxin; <b>PDBTitle:</b> solution structure of bmp02, a natural scorpion toxin which2 blocks apamin-sensitive calcium-activated potassium3 channels, 25 structures
23	<a href="#">c1v47B_</a>	Alignment	not modelled	6.1	38	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> atp sulfurylase; <b>PDBTitle:</b> crystal structure of atp sulfurylase from thermus2 thermophilus hb8 in complex with aps
24	<a href="#">dlrrqa1</a>	Alignment	not modelled	5.9	50	<b>Fold:</b> DNA-glycosylase <b>Superfamily:</b> DNA-glycosylase <b>Family:</b> Mismatch glycosylase
25	<a href="#">dlacwa_</a>	Alignment	not modelled	5.9	56	<b>Fold:</b> Knottins (small inhibitors, toxins, lectins) <b>Superfamily:</b> Scorpion toxin-like <b>Family:</b> Short-chain scorpion toxins
26	<a href="#">d2zjr41</a>	Alignment	not modelled	5.9	44	<b>Fold:</b> Ribosomal protein L36 <b>Superfamily:</b> Ribosomal protein L36 <b>Family:</b> Ribosomal protein L36
27	<a href="#">c3pm2A_</a>	Alignment	not modelled	5.7	31	<b>PDB header:</b> transport protein <b>Chain:</b> A: <b>PDB Molecule:</b> odorant binding protein (agap007287-pa); <b>PDBTitle:</b> crystal structure of a novel type of odorant binding protein from2 anopheles gambiae belonging to the c+ class
28	<a href="#">d2zkmx4</a>	Alignment	not modelled	5.2	24	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> PLC-like phosphodiesterases <b>Family:</b> Mammalian PLC

