

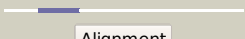

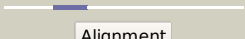

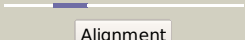

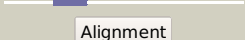

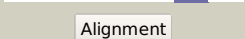

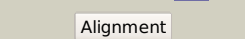

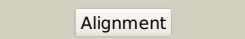

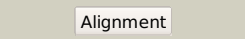
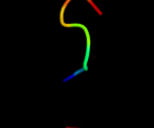
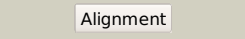

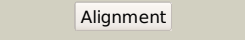
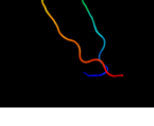


Phyre2

Email	I.a.kelley@imperial.ac.uk
Description	Q9JK95
Date	Wed Jul 10 14:03:56 BST 2013
Unique Job ID	89f945e39a9ae1d1

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1j4na_	 Alignment		17.5	11	Fold: Aquaporin-like Superfamily: Aquaporin-like Family: Aquaporin-like
2	c2kseA_	 Alignment		14.0	21	PDB header: transferase Chain: A: PDB Molecule: sensor protein qsec; PDBTitle: backbone structure of the membrane domain of e. coli histidine kinase2 receptor qsec, center for structures of membrane proteins (csmp)3 target 4311c
3	c2pm5B_	 Alignment		11.6	38	PDB header: antimicrobial protein Chain: B: PDB Molecule: neutrophil defensin 1 (hnp-1) (hp-1) (hp1) (defensin, alpha) PDBTitle: human alpha-defensin 1 derivative (hnp1)
4	c2pm5A_	 Alignment		11.6	38	PDB header: antimicrobial protein Chain: A: PDB Molecule: neutrophil defensin 1 (hnp-1) (hp-1) (hp1) (defensin, alpha) PDBTitle: human alpha-defensin 1 derivative (hnp1)
5	c2pm1A_	 Alignment		11.5	38	PDB header: antimicrobial protein Chain: A: PDB Molecule: neutrophil defensin 1 (hnp-1) (hp-1) (hp1) PDBTitle: derivative of human alpha-defensin 1 (hnp1)
6	d1dtxa_	 Alignment		10.9	13	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
7	d1shpa_	 Alignment		10.0	13	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
8	d1p2ji_	 Alignment		9.3	30	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
9	c4b0fE_	 Alignment		9.2	86	PDB header: immune system Chain: E: PDB Molecule: c4b-binding protein alpha chain; PDBTitle: heptameric core complex structure of c4b-binding (c4bp)2 protein from human
10	d1dtka_	 Alignment		8.7	13	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
11	d1bf0a_	 Alignment		8.7	4	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins

12	d1jc6a_	Alignment		8.5	22	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
13	d1ld6a_	Alignment		8.4	36	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
14	d1bpia_	Alignment		8.4	30	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
15	d1zr0b1	Alignment		8.3	26	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
16	c3rkoF_	Alignment		8.0	18	PDB header: oxidoreductase Chain: F; PDB Molecule: nadh-quinone oxidoreductase subunit j; PDBTitle: crystal structure of the membrane domain of respiratory complex i from2 e. coli at 3.0 angstrom resolution
17	d1pb5a_	Alignment		7.7	38	Fold: Notch domain Superfamily: Notch domain Family: Notch domain
18	c1yc0L_	Alignment		7.6	26	PDB header: hydrolase/inhibitor Chain: I; PDB Molecule: kunitz-type protease inhibitor 1; PDBTitle: short form hgfa with first kunitz domain from hai-1
19	c4j05A_	Alignment		7.6	12	PDB header: transport protein Chain: A; PDB Molecule: phosphate transporter; PDBTitle: crystal structure of a eukaryotic phosphate transporter
20	d1aapa_	Alignment		7.4	17	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
21	d1dema_	Alignment	not modelled	7.3	13	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
22	d1lrha_	Alignment	not modelled	7.2	26	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
23	d1faki_	Alignment	not modelled	7.1	35	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
24	d2r6gf1	Alignment	not modelled	7.0	9	Fold: MalF N-terminal region-like Superfamily: MalF N-terminal region-like Family: MalF N-terminal region-like
25	d2ih2a2	Alignment	not modelled	6.9	33	Fold: DNA methylase specificity domain Superfamily: DNA methylase specificity domain Family: TaqI C-terminal domain-like
26	c4heaT_	Alignment	not modelled	6.8	11	PDB header: oxidoreductase Chain: T; PDB Molecule: nadh-quinone oxidoreductase subunit 12; PDBTitle: crystal structure of the entire respiratory complex i from thermus2 thermophilus
27	d1ktha_	Alignment	not modelled	6.7	13	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
28	c2osIP_	Alignment	not modelled	6.7	28	PDB header: immune system Chain: P; PDB Molecule: b-lymphocyte antigen cd20; PDBTitle: crystal structure of rituximab fab in complex with an2 epitope peptide
29	c3h8eB	Alignment	not modelled	6.6	13	PDB header: hydrolase/transport protein Chain: B; PDB Molecule: sodium/potassium-transporting atpase

29	c3u8eb_	Alignment	not modelled	6.0	13	subunit PDBTitle: crystal structure of the sodium-potassium pump
30	c1y62E_	Alignment	not modelled	6.3	22	PDB header: toxin Chain: E; PDB Molecule: conkunitzin-s1; PDBTitle: a 2.4 crystal structure of conkunitzin-s1, a novel kunitz-2 fold cone snail neurotoxin.
31	c2wwaC_	Alignment	not modelled	6.0	33	PDB header: ribosome Chain: C; PDB Molecule: protein transport protein seb2; PDBTitle: cryo-em structure of idle yeast ssh1 complex bound to the2 yeast 80s ribosome
32	d1u0sa_	Alignment	not modelled	5.8	15	Fold: Ferredoxin-like Superfamily: CheY-binding domain of CheA Family: CheY-binding domain of CheA
33	d1xmeh2	Alignment	not modelled	5.7	38	Fold: Transmembrane helix hairpin Superfamily: Cytochrome c oxidase subunit II-like, transmembrane region Family: Cytochrome c oxidase subunit II-like, transmembrane region
34	d1itua_	Alignment	not modelled	5.6	32	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: Renal dipeptidase
35	c2ww9C_	Alignment	not modelled	5.6	28	PDB header: ribosome Chain: C; PDB Molecule: protein transport protein seb2; PDBTitle: cryo-em structure of the active yeast ssh1 complex bound to the2 yeast 80s ribosome
36	c1q0wA_	Alignment	not modelled	5.6	38	PDB header: transport protein Chain: A; PDB Molecule: vacuolar protein sorting-associated protein PDBTitle: solution structure of vps27 amino-terminal uim-ubiquitin2 complex
37	d1tfxc_	Alignment	not modelled	5.3	22	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
38	c4heaj_	Alignment	not modelled	5.3	9	PDB header: oxidoreductase Chain: J; PDB Molecule: nadh-quinone oxidoreductase subunit 10; PDBTitle: crystal structure of the entire respiratory complex i from thermus2 thermophilus
39	d1bika2	Alignment	not modelled	5.2	9	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
40	d1uuba_	Alignment	not modelled	5.1	35	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
41	d1g6xa_	Alignment	not modelled	5.1	30	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins
42	d1ladza_	Alignment	not modelled	5.0	23	Fold: BPTI-like Superfamily: BPTI-like Family: Small Kunitz-type inhibitors & BPTI-like toxins