
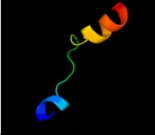
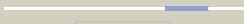
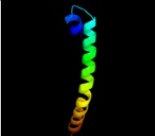











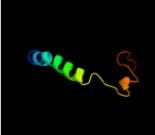





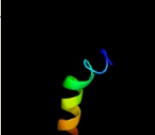

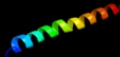






Phyre2

Email	I.a.kelley@imperial.ac.uk
Description	P69423
Date	Thu Jan 5 12:11:32 GMT 2012
Unique Job ID	36268c122e80b3be

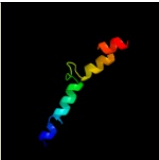
Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3qodB_	 Alignment		42.0	35	PDB header: dna binding protein Chain: B: PDB Molecule: heterocyst differentiation protein; PDBTitle: crystal structure of heterocyst differentiation protein, hetr from2 fischerella mv11
2	c3qnqD_	 Alignment		24.4	20	PDB header: membrane protein, transport protein Chain: D: PDB Molecule: pts system, cellobiose-specific iic component; PDBTitle: crystal structure of the transporter chbc, the iic component from the2 n,n'-diacetylchitobiose-specific phosphotransferase system
3	d1v54l_	 Alignment		23.9	18	Fold: Single transmembrane helix Superfamily: Mitochondrial cytochrome c oxidase subunit VIIc (aka VIIla) Family: Mitochondrial cytochrome c oxidase subunit VIIc (aka VIIla)
4	c2klua_	 Alignment		19.8	19	PDB header: immune system, membrane protein Chain: A: PDB Molecule: t-cell surface glycoprotein cd4; PDBTitle: nmr structure of the transmembrane and cytoplasmic domains2 of human cd4
5	c2y69Y_	 Alignment		19.3	18	PDB header: electron transport Chain: Y: PDB Molecule: cytochrome c oxidase subunit 7c; PDBTitle: bovine heart cytochrome c oxidase re-refined with molecular2 oxygen
6	d2oara1	 Alignment		13.1	23	Fold: Gated mechanosensitive channel Superfamily: Gated mechanosensitive channel Family: Gated mechanosensitive channel
7	c2kncA_	 Alignment		10.8	13	PDB header: cell adhesion Chain: A: PDB Molecule: integrin alpha-iiB; PDBTitle: platelet integrin alfaIiB-beta3 transmembrane-cytoplasmic2 heterocomplex
8	c2k21A_	 Alignment		10.2	19	PDB header: membrane protein Chain: A: PDB Molecule: potassium voltage-gated channel subfamily e PDBTitle: nmr structure of human kcne1 in 1mpg micelles at ph 6.0 and2 40 degree c
9	c3h3pT_	 Alignment		10.0	45	PDB header: immune system Chain: T: PDB Molecule: 4e10_s0_1tjlc_004_n; PDBTitle: crystal structure of hiv epitope-scaffold 4e10 fv complex
10	c2affB_	 Alignment		8.9	17	PDB header: cell cycle Chain: B: PDB Molecule: mki67 fha domain interacting nucleolar phosphoprotein; PDBTitle: the solution structure of the ki67fha/hnifk(226-269)3p complex
11	c3j01A_	 Alignment		8.9	43	PDB header: ribosome/ribosomal protein Chain: A: PDB Molecule: preprotein translocase secy subunit; PDBTitle: structure of the ribosome-secy complex in the membrane environment

12	d2iuba2	Alignment		7.8	7	Fold: Transmembrane helix hairpin Superfamily: Magnesium transport protein CorA, transmembrane region Family: Magnesium transport protein CorA, transmembrane region
13	c2rddb_	Alignment		7.7	15	PDB header: membrane protein/transport protein Chain: B: PDB Molecule: upf0092 membrane protein yajc; PDBTitle: x-ray crystal structure of acrb in complex with a novel2 transmembrane helix.
14	c3iz6C_	Alignment		7.5	18	PDB header: ribosome Chain: C: PDB Molecule: 40s ribosomal protein s9 (s4p); PDBTitle: localization of the small subunit ribosomal proteins into a 5.5 a2 cryo-em map of triticum aestivum translating 80s ribosome
15	c2voyG_	Alignment		7.3	28	PDB header: hydrolase Chain: G: PDB Molecule: sarcoplasmic/endoplasmic reticulum calcium PDBTitle: cryoem model of copa, the copper transporting atpase from2 archaeoglobus fulgidus
16	c2jlnA_	Alignment		6.6	16	PDB header: membrane protein Chain: A: PDB Molecule: mhp1; PDBTitle: structure of mhp1, a nucleobase-cation-symport-1 family2 transporter
17	c2i0eA_	Alignment		5.2	11	PDB header: membrane protein Chain: A: PDB Molecule: sodium/hydrogen exchanger 1; PDBTitle: structural and functional analysis of tm vi of the nhe1 isoform of the2 na+/h+ exchanger

18 [c2oarA](#)

Alignment



5.1

23

PDB header:membrane protein
Chain: A: **PDB Molecule:**large-conductance mechanosensitive channel;
PDBTitle: mechanosensitive channel of large conductance (mscl)