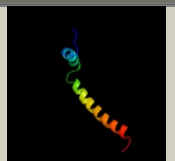
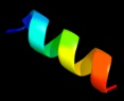
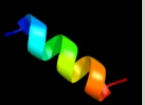
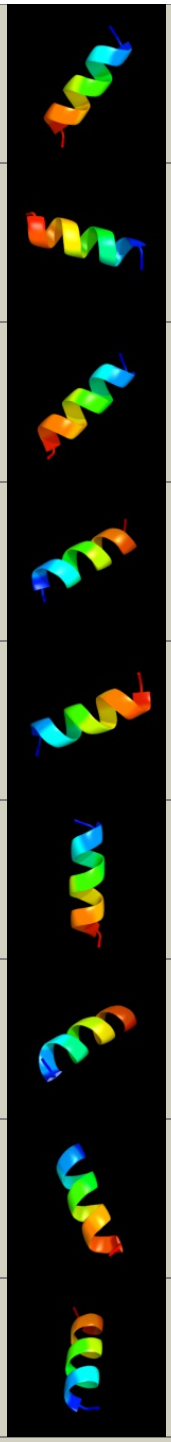
Phyre2

Email	l.a.kelley@imperial.ac.uk
Description	P69425
Date	Wed Jan 25 15:21:01 GMT 2012
Unique Job ID	04c2919bb428e8db

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2l16A_	Alignment		99.8	27	**PDB header:**protein transport **Chain:** A: **PDB Molecule:**sec-independent protein translocase protein tatad; **PDBTitle:** solution structure of bacillus subtilits tatad protein in dpc micelles
2	d2axtj1	Alignment		49.7	31	**Fold:**Single transmembrane helix **Superfamily:**Photosystem II reaction center protein J, PsbJ **Family:**PsbJ-like
3	d1ohua_	Alignment		45.3	13	**Fold:**Toxins' membrane translocation domains **Superfamily:**Bcl-2 inhibitors of programmed cell death **Family:**Bcl-2 inhibitors of programmed cell death
4	d2axti1	Alignment		37.6	31	**Fold:**Single transmembrane helix **Superfamily:**Photosystem II reaction center protein I, PsbI **Family:**PsbI-like
5	d1bxla_	Alignment		30.0	18	**Fold:**Toxins' membrane translocation domains **Superfamily:**Bcl-2 inhibitors of programmed cell death **Family:**Bcl-2 inhibitors of programmed cell death
6	d2cqqa1	Alignment		29.8	15	**Fold:**DNA/RNA-binding 3-helical bundle **Superfamily:**Homeodomain-like **Family:**Myb/SANT domain
7	c3prrL_	Alignment		29.5	29	**PDB header:**photosynthesis **Chain:** L: **PDB Molecule:**photosystem ii reaction center protein l; **PDBTitle:** crystal structure of cyanobacterial photosystem ii in complex with2 terbutryn (part 2 of 2). this file contains second monomer of psii3 dimer
8	c1s5lL_	Alignment		29.5	29	**PDB header:**photosynthesis **Chain:** L: **PDB Molecule:**photosystem ii reaction center l protein; **PDBTitle:** architecture of the photosynthetic oxygen evolving center
9	c3bz1L_	Alignment		29.5	29	**PDB header:**electron transport **Chain:** L: **PDB Molecule:**photosystem ii reaction center protein l; **PDBTitle:** crystal structure of cyanobacterial photosystem ii (part 12 of 2). this file contains first monomer of psii dimer
10	c3bz2L_	Alignment		29.5	29	**PDB header:**electron transport **Chain:** L: **PDB Molecule:**photosystem ii reaction center protein l; **PDBTitle:** crystal structure of cyanobacterial photosystem ii (part 22 of 2). this file contains second monomer of psii dimer
11	c3prqL_	Alignment		29.5	29	**PDB header:**photosynthesis **Chain:** L: **PDB Molecule:**photosystem ii reaction center protein l; **PDBTitle:** crystal structure of cyanobacterial photosystem ii in complex with2 terbutryn (part 1 of 2). this file contains first monomer of psii3 dimer

12	c3arcL_	Alignment		29.5	29	**PDB header:**electron transport, photosynthesis **Chain:** L: **PDB Molecule:**photosystem ii reaction center protein l; **PDBTitle:** crystal structure of oxygen-evolving photosystem ii at 1.9 angstrom2 resolution
13	d2axtl1	Alignment		29.5	29	**Fold:**Single transmembrane helix **Superfamily:**Photosystem II reaction center protein L, PsbL **Family:**PsbL-like
14	c2axtl_	Alignment		29.5	29	**PDB header:**electron transport **Chain:** L: **PDB Molecule:**photosystem ii reaction center l protein; **PDBTitle:** crystal structure of photosystem ii from thermosynechococcus elongatus
15	c1s5ll_	Alignment		29.5	29	**PDB header:**photosynthesis **Chain:** L: **PDB Molecule:**photosystem ii reaction center l protein; **PDBTitle:** architecture of the photosynthetic oxygen evolving center
16	c3a0bL_	Alignment		29.5	29	**PDB header:**electron transport **Chain:** L: **PDB Molecule:**photosystem ii reaction center protein l; **PDBTitle:** crystal structure of br-substituted photosystem ii complex
17	c3a0hL_	Alignment		29.5	29	**PDB header:**electron transport **Chain:** L: **PDB Molecule:**photosystem ii reaction center protein l; **PDBTitle:** crystal structure of i-substituted photosystem ii complex
18	c3kziL_	Alignment		29.5	29	**PDB header:**electron transport **Chain:** L: **PDB Molecule:**photosystem ii reaction center protein l; **PDBTitle:** crystal structure of monomeric form of cyanobacterial photosystem ii
19	c2axtL_	Alignment		29.5	29	**PDB header:**electron transport **Chain:** L: **PDB Molecule:**photosystem ii reaction center l protein; **PDBTitle:** crystal structure of photosystem ii from thermosynechococcus elongatus
20	c3a0hl_	Alignment		29.5	29	**PDB header:**electron transport **Chain:** L: **PDB Molecule:**photosystem ii reaction center protein l; **PDBTitle:** crystal structure of i-substituted photosystem ii complex
21	c3a0bl_	Alignment	not modelled	29.5	29	**PDB header:**electron transport **Chain:** L: **PDB Molecule:**photosystem ii reaction center protein l; **PDBTitle:** crystal structure of br-substituted photosystem ii complex
22	d1pq1a_	Alignment	not modelled	24.4	16	**Fold:**Toxins' membrane translocation domains **Superfamily:**Bcl-2 inhibitors of programmed cell death **Family:**Bcl-2 inhibitors of programmed cell death
23	c3arcl_	Alignment	not modelled	23.0	29	**PDB header:**electron transport, photosynthesis **Chain:** L: **PDB Molecule:**photosystem ii reaction center protein l; **PDBTitle:** crystal structure of oxygen-evolving photosystem ii at 1.9 angstrom2 resolution
24	c2bzwB_	Alignment	not modelled	22.2	15	**PDB header:**transcription **Chain:** B: **PDB Molecule:**bcl2-antagonist of cell death; **PDBTitle:** the crystal structure of bcl-xl in complex with full-length2 bad
25	c3qbrA_	Alignment	not modelled	21.2	16	**PDB header:**apoptosis **Chain:** A: **PDB Molecule:**sjchgc06286 protein; **PDBTitle:** bakbh3 in complex with sja
26	d1zy3a1	Alignment	not modelled	20.1	11	**Fold:**Toxins' membrane translocation domains **Superfamily:**Bcl-2 inhibitors of programmed cell death **Family:**Bcl-2 inhibitors of programmed cell death
27	d2jm6b1	Alignment	not modelled	16.7	15	**Fold:**Toxins' membrane translocation domains **Superfamily:**Bcl-2 inhibitors of programmed cell death **Family:**Bcl-2 inhibitors of programmed cell death
28	c2voyH_	Alignment	not modelled	16.1	20	**PDB header:**hydrolase **Chain:** H: **PDB Molecule:**sarcoplasmic/endoplasmic reticulum calcium **PDBTitle:** cryoem model of copa, the copper transporting atpase from2 archaeoglobus fulgidus

29	d1ysga1	Alignment	not modelled	14.8	16	**Fold:**Toxins' membrane translocation domains **Superfamily:**Bcl-2 inhibitors of programmed cell death **Family:**Bcl-2 inhibitors of programmed cell death
30	c1yceD_	Alignment	not modelled	14.4	25	**PDB header:**membrane protein **Chain:** D: **PDB Molecule:**subunit c; **PDBTitle:** structure of the rotor ring of f-type na+-atpase from ilyobacter2 tartaricus
31	c2nogA_	Alignment	not modelled	14.1	7	**PDB header:**dna binding protein **Chain:** A: **PDB Molecule:**iswi protein; **PDBTitle:** sant domain structure of xenopus remodeling factor iswi
32	c1vf5U_	Alignment	not modelled	12.5	45	**PDB header:**photosynthesis **Chain:** U: **PDB Molecule:**protein pet n; **PDBTitle:** crystal structure of cytochrome b6f complex from m.laminosus
33	c1vf5H_	Alignment	not modelled	12.5	45	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**protein pet n; **PDBTitle:** crystal structure of cytochrome b6f complex from m.laminosus
34	c1g5jB_	Alignment	not modelled	12.2	23	**PDB header:**apoptosis **Chain:** B: **PDB Molecule:**bad protein; **PDBTitle:** complex of bcl-xl with peptide from bad
35	c2rocB_	Alignment	not modelled	11.8	17	**PDB header:**apoptosis **Chain:** B: **PDB Molecule:**bcl-2-binding component 3; **PDBTitle:** solution structure of mcl-1 complexed with puma
36	c2yv6A_	Alignment	not modelled	11.0	16	**PDB header:**apoptosis **Chain:** A: **PDB Molecule:**bcl-2 homologous antagonist/killer; **PDBTitle:** crystal structure of human bcl-2 family protein bak
37	c2zjsE_	Alignment	not modelled	10.9	21	**PDB header:**protein transport/immune system **Chain:** E: **PDB Molecule:**preprotein translocase sece subunit; **PDBTitle:** crystal structure of secye translocon from thermus thermophilus with a2 fab fragment
38	d1o0la_	Alignment	not modelled	10.6	11	**Fold:**Toxins' membrane translocation domains **Superfamily:**Bcl-2 inhibitors of programmed cell death **Family:**Bcl-2 inhibitors of programmed cell death
39	d1g5ma_	Alignment	not modelled	10.6	11	**Fold:**Toxins' membrane translocation domains **Superfamily:**Bcl-2 inhibitors of programmed cell death **Family:**Bcl-2 inhibitors of programmed cell death
40	c2o2fA_	Alignment	not modelled	9.6	19	**PDB header:**apoptosis **Chain:** A: **PDB Molecule:**apoptosis regulator bcl-2; **PDBTitle:** solution structure of the anti-apoptotic protein bcl-2 in2 complex with an acyl-sulfonamide-based ligand
41	c2xa0A_	Alignment	not modelled	9.5	16	**PDB header:**apoptosis **Chain:** A: **PDB Molecule:**apoptosis regulator bcl-2; **PDBTitle:** crystal structure of bcl-2 in complex with a bax bh32 peptide
42	c2e75H_	Alignment	not modelled	9.5	23	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit 8; **PDBTitle:** crystal structure of the cytochrome b6f complex with 2-nonyl-4-2 hydroxyquinoline n-oxide (nqno) from m.laminosus
43	c2e76H_	Alignment	not modelled	9.5	23	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit 8; **PDBTitle:** crystal structure of the cytochrome b6f complex with tridecyl-2 stigmatellin (tds) from m.laminosus
44	c2e74H_	Alignment	not modelled	9.5	23	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit 8; **PDBTitle:** crystal structure of the cytochrome b6f complex from m.laminosus
45	d1f16a_	Alignment	not modelled	9.2	18	**Fold:**Toxins' membrane translocation domains **Superfamily:**Bcl-2 inhibitors of programmed cell death **Family:**Bcl-2 inhibitors of programmed cell death
46	c2zt9H_	Alignment	not modelled	9.1	45	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit 8; **PDBTitle:** crystal structure of the cytochrome b6f complex from nostoc sp. pcc2 7120
47	d2e74h1	Alignment	not modelled	8.9	45	**Fold:**Single transmembrane helix **Superfamily:**PetN subunit of the cytochrome b6f complex **Family:**PetN subunit of the cytochrome b6f complex
48	c2vofB_	Alignment	not modelled	8.8	18	**PDB header:**apoptosis **Chain:** B: **PDB Molecule:**bcl-2-binding component 3; **PDBTitle:** structure of mouse a1 bound to the puma bh3-domain
49	d2ponb1	Alignment	not modelled	8.7	16	**Fold:**Toxins' membrane translocation domains **Superfamily:**Bcl-2 inhibitors of programmed cell death **Family:**Bcl-2 inhibitors of programmed cell death
50	d1x4ta1	Alignment	not modelled	8.7	23	**Fold:**Long alpha-hairpin **Superfamily:**ISY1 domain-like **Family:**ISY1 N-terminal domain-like
51	c2jpxA_	Alignment	not modelled	8.1	50	**PDB header:**viral protein **Chain:** A: **PDB Molecule:**vpu protein; **PDBTitle:** a18h vpu tm structure in lipid bilayers
52	c2kuaA_	Alignment	not modelled	7.5	15	**PDB header:**apoptosis **Chain:** A: **PDB Molecule:**bcl-2-like protein 10; **PDBTitle:** solution structure of a divergent bcl-2 protein
53	c2a5yA_	Alignment	not modelled	7.5	16	**PDB header:**apoptosis **Chain:** A: **PDB Molecule:**apoptosis regulator ced-9; **PDBTitle:** structure of a ced-4/ced-9 complex
54	c2d2cU_	Alignment	not modelled	7.5	45	**PDB header:**photosynthesis **Chain:** U: **PDB Molecule:**cytochrome b6-f complex subunit viii; **PDBTitle:** crystal structure of cytochrome b6f complex with dbmib from2 m. laminosus
55	c2d2cH_	Alignment	not modelled	7.5	45	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit viii; **PDBTitle:** crystal structure of cytochrome b6f complex with dbmib from2 m. laminosus

56	d1rp3a1	Alignment	not modelled	7.4	15	**Fold:**DNA/RNA-binding 3-helical bundle **Superfamily:**Sigma3 and sigma4 domains of RNA polymerase sigma factors **Family:**Sigma3 domain
57	d1f6va_	Alignment	not modelled	7.3	20	**Fold:**C-terminal domain of B transposition protein **Superfamily:**C-terminal domain of B transposition protein **Family:**C-terminal domain of B transposition protein
58	c3oqvA_	Alignment	not modelled	7.0	19	**PDB header:**protein binding **Chain:** A: **PDB Molecule:**albc; **PDBTitle:** albc, a cyclodipeptide synthase from streptomyces noursei
59	c1qoyA_	Alignment	not modelled	6.9	13	**PDB header:**toxin **Chain:** A: **PDB Molecule:**hemolysin e; **PDBTitle:** e.coli hemolysin e (hlye, clya, shea)
60	d1ofcx1	Alignment	not modelled	6.8	15	**Fold:**DNA/RNA-binding 3-helical bundle **Superfamily:**Homeodomain-like **Family:**Myb/SANT domain
61	c2ks1B_	Alignment	not modelled	6.5	36	**PDB header:**transferase **Chain:** B: **PDB Molecule:**epidermal growth factor receptor; **PDBTitle:** heterodimeric association of transmembrane domains of erbb1 and erbb22 receptors enabling kinase activation
62	c2o60B_	Alignment	not modelled	6.3	32	**PDB header:**metal binding protein **Chain:** B: **PDB Molecule:**peptide corresponding to calmodulin binding domain of **PDBTitle:** calmodulin bound to peptide from neuronal nitric oxide synthase
63	c3mk7F_	Alignment	not modelled	6.1	11	**PDB header:**oxidoreductase **Chain:** F: **PDB Molecule:**cytochrome c oxidase, cbb3-type, subunit p; **PDBTitle:** the structure of cbb3 cytochrome oxidase
64	c2vofD_	Alignment	not modelled	6.0	22	**PDB header:**apoptosis **Chain:** D: **PDB Molecule:**bcl-2-binding component 3; **PDBTitle:** structure of mouse a1 bound to the puma bh3-domain
65	c2kncB_	Alignment	not modelled	5.7	27	**PDB header:**cell adhesion **Chain:** B: **PDB Molecule:**integrin beta-3; **PDBTitle:** platelet integrin alfaiib-beta3 transmembrane-cytoplasmic2 heterocomplex
66	c3qz6A_	Alignment	not modelled	5.7	32	**PDB header:**lyase **Chain:** A: **PDB Molecule:**hpch/hpai aldolase; **PDBTitle:** the crystal structure of hpch/hpai aldolase from desulfitobacterium2 hafniense dcb-2
67	d1r9wa_	Alignment	not modelled	5.7	22	**Fold:**Origin of replication-binding domain, RBD-like **Superfamily:**Origin of replication-binding domain, RBD-like **Family:**Replication initiation protein E1
68	c1wu0A_	Alignment	not modelled	5.5	20	**PDB header:**hydrolase **Chain:** A: **PDB Molecule:**atp synthase c chain; **PDBTitle:** solution structure of subunit c of f1fo-atp synthase from2 the thermophilic bacillus ps3
69	c2voyG_	Alignment	not modelled	5.4	36	**PDB header:**hydrolase **Chain:** G: **PDB Molecule:**sarcoplasmic/endoplasmic reticulum calcium **PDBTitle:** cryoem model of copa, the copper transporting atpase from2 archaeoglobus fulgidus
70	d1eq1a_	Alignment	not modelled	5.3	8	**Fold:**Apolipophorin-III **Superfamily:**Apolipophorin-III **Family:**Apolipophorin-III
71	d1dula_	Alignment	not modelled	5.3	7	**Fold:**Signal peptide-binding domain **Superfamily:**Signal peptide-binding domain **Family:**Signal peptide-binding domain
72	d2b50a1	Alignment	not modelled	5.2	18	**Fold:**Nuclear receptor ligand-binding domain **Superfamily:**Nuclear receptor ligand-binding domain **Family:**Nuclear receptor ligand-binding domain
73	c2wz1B_	Alignment	not modelled	5.1	17	**PDB header:**lyase **Chain:** B: **PDB Molecule:**guanylate cyclase soluble subunit beta-1; **PDBTitle:** structure of the catalytic domain of human soluble2 guanylate cyclase 1 beta 3.