Phyre2

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Description	RVBD2732c_(-)_3044385_3044999
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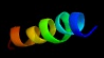
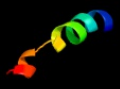
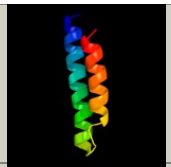
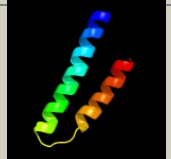
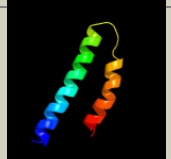
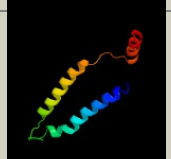
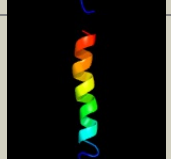
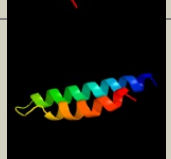
Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1yaxB_	Alignment		54.6	29	**PDB header:**transferase, signaling protein **Chain:** B: **PDB Molecule:**virulence sensor protein phoq, sensor domain; **PDBTitle:** cystal structure analysis of s.typhimurium phoq sensor domain with2 calcium
2	d1iwga8	Alignment		34.9	15	**Fold:**Multidrug efflux transporter AcrB transmembrane domain **Superfamily:**Multidrug efflux transporter AcrB transmembrane domain **Family:**Multidrug efflux transporter AcrB transmembrane domain
3	c4pv1H_	Alignment		31.6	38	**PDB header:**electron transport/inhibitor **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit 8; **PDBTitle:** cytochrome b6f structure from m. laminosus with the quinone analog2 inhibitor stigmatellin
4	c4i7zH_	Alignment		31.6	38	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit 8; **PDBTitle:** crystal structure of cytochrome b6f in dopg, with disordered rieske2 iron-sulfur protein soluble domain
5	d2e74h1	Alignment		31.4	38	**Fold:**Single transmembrane helix **Superfamily:**PetN subunit of the cytochrome b6f complex **Family:**PetN subunit of the cytochrome b6f complex
6	c4h0lH_	Alignment		31.0	38	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit 8; **PDBTitle:** cytochrome b6f complex crystal structure from mastigocladus laminosus2 with n-side inhibitor nqno
7	c2e75H_	Alignment		31.0	38	**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
8	c2e76H_	Alignment		31.0	38	**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
9	c4h13H_	Alignment		31.0	38	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit 8; **PDBTitle:** crystal structure of the cytochrome b6f complex from mastigocladus2 laminosus with tds
10	c2e74H_	Alignment		31.0	38	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit 8; **PDBTitle:** crystal structure of the cytochrome b6f complex from m.laminosus
11	c4dveA_	Alignment		30.9	16	**PDB header:**transport protein **Chain:** A: **PDB Molecule:**biotin transporter bioy; **PDBTitle:** crystal structure at 2.1 a of the s-component for biotin from an ecf-2 type abc transporter

12	d2i5nm1	Alignment		28.9	17	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
13	d1eysm_	Alignment		28.3	20	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
14	c5yq7L_	Alignment		27.2	11	**PDB header:**photosynthesis **Chain:** L: **PDB Molecule:**precursor for l subunits of photosynthetic reaction center; **PDBTitle:** cryo-em structure of the rc-lh core complex from roseiflexus2 castenholzii
15	c1vf5H_	Alignment		26.6	38	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**protein pet n; **PDBTitle:** crystal structure of cytochrome b6f complex from m.laminosus
16	c4j05A_	Alignment		25.9	26	**PDB header:**transport protein **Chain:** A: **PDB Molecule:**phosphate transporter; **PDBTitle:** crystal structure of a eukaryotic phosphate transporter
17	c1bhbA_	Alignment		25.8	18	**PDB header:**photoreceptor **Chain:** A: **PDB Molecule:**bacteriorhodopsin; **PDBTitle:** three-dimensional structure of (1-71) bacterioopsin2 solubilized in methanol-chloroform and sds micelles3 determined by 15n-1h heteronuclear nmr spectroscopy
18	c1vf5U_	Alignment		25.4	38	**PDB header:**photosynthesis **Chain:** U: **PDB Molecule:**protein pet n; **PDBTitle:** crystal structure of cytochrome b6f complex from m.laminosus
19	d1q90n_	Alignment		24.7	29	**Fold:**Single transmembrane helix **Superfamily:**PetN subunit of the cytochrome b6f complex **Family:**PetN subunit of the cytochrome b6f complex
20	c5yq7M_	Alignment		24.1	22	**PDB header:**photosynthesis **Chain:** M: **PDB Molecule:**precursor for m subunits of photosynthetic reaction center; **PDBTitle:** cryo-em structure of the rc-lh core complex from roseiflexus2 castenholzii
21	c5b2gG_	Alignment	not modelled	22.2	16	**PDB header:**membrane protein **Chain:** G: **PDB Molecule:**endolysin,claudin-4; **PDBTitle:** crystal structure of human claudin-4 in complex with c-terminal2 fragment of clostridium perfringens enterotoxin
22	d2j8cm1	Alignment	not modelled	22.0	20	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
23	c3mk7F_	Alignment	not modelled	21.1	19	**PDB header:**oxidoreductase **Chain:** F: **PDB Molecule:**cytochrome c oxidase, cbb3-type, subunit p; **PDBTitle:** the structure of cbb3 cytochrome oxidase
24	c4h44H_	Alignment	not modelled	21.1	41	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit 8; **PDBTitle:** 2.70 a cytochrome b6f complex structure from nostoc pcc 7120
25	c2zt9H_	Alignment	not modelled	21.1	41	**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
26	c4oggH_	Alignment	not modelled	21.1	41	**PDB header:**electron transport **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit 8; **PDBTitle:** internal lipid architecture of the hetero-oligomeric cytochrome b6f2 complex
27	c6gwxA_	Alignment	not modelled	20.9	26	**PDB header:**structural protein **Chain:** A: **PDB Molecule:**optimised ppa-tyr; **PDBTitle:** stabilising and understanding a miniprotein by rational design.
28	d2axtd1	Alignment	not modelled	20.9	20	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits

29	c2d2cU_	Alignment	not modelled	20.2	38	**PDB header:**photosynthesis **Chain:** U: **PDB Molecule:**cytochrome b6-f complex subunit viii; **PDBTitle:** crystal structure of cytochrome b6f complex with dbmib from m.2 laminosus
30	c2d2cH_	Alignment	not modelled	20.2	38	**PDB header:**photosynthesis **Chain:** H: **PDB Molecule:**cytochrome b6-f complex subunit viii; **PDBTitle:** crystal structure of cytochrome b6f complex with dbmib from m.2 laminosus
31	d1l9bm_	Alignment	not modelled	16.1	20	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
32	c2n28A_	Alignment	not modelled	16.1	13	**PDB header:**viral protein **Chain:** A: **PDB Molecule:**protein vpu; **PDBTitle:** solid-state nmr structure of vpu
33	c6r8fG_	Alignment	not modelled	15.5	23	**PDB header:**signaling protein **Chain:** G: **PDB Molecule:**brisc and brca1-a complex member 2,brcc45 (bre, brisc and **PDBTitle:** cryo-em structure of the human brisc-shmt2 complex
34	c6r8fE_	Alignment	not modelled	15.5	23	**PDB header:**signaling protein **Chain:** E: **PDB Molecule:**brisc and brca1-a complex member 2,brcc45 (bre, brisc and **PDBTitle:** cryo-em structure of the human brisc-shmt2 complex
35	d2i5nl1	Alignment	not modelled	15.4	11	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
36	c3lt6D_	Alignment	not modelled	15.3	15	**PDB header:**cell adhesion **Chain:** D: **PDB Molecule:**adhesin yada; **PDBTitle:** a transition from strong right-handed to canonical left-handed2 supercoiling in a conserved coiled coil segment of trimeric3 autotransporter adhesins - the mutant 4 structure
37	c5kzoA_	Alignment	not modelled	15.0	32	**PDB header:**transcription **Chain:** A: **PDB Molecule:**neurogenic locus notch homolog protein 1; **PDBTitle:** notch1 transmembrane and associated juxtamembrane segment
38	d2j8cl1	Alignment	not modelled	14.3	13	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
39	c6eznE_	Alignment	not modelled	12.9	12	**PDB header:**membrane protein **Chain:** E: **PDB Molecule:**dolichyl-diphosphooligosaccharide--protein **PDBTitle:** cryo-em structure of the yeast oligosaccharyltransferase (ost) complex
40	c4zyoA_	Alignment	not modelled	12.1	14	**PDB header:**oxidoreductase **Chain:** A: **PDB Molecule:**acyl-coa desaturase; **PDBTitle:** crystal structure of human integral membrane stearoyl-coa desaturase2 with substrate
41	c3lt7D_	Alignment	not modelled	11.6	16	**PDB header:**cell adhesion **Chain:** D: **PDB Molecule:**adhesin yada; **PDBTitle:** a transition from strong right-handed to canonical left-handed2 supercoiling in a conserved coiled coil segment of trimeric3 autotransporter adhesins - the m3 mutant structure
42	d2axta1	Alignment	not modelled	11.3	15	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
43	c6fosI_	Alignment	not modelled	10.4	26	**PDB header:**photosynthesis **Chain:** I: **PDB Molecule:**photosystem i reaction center subunit viii; **PDBTitle:** cyanidioschyzon merolae photosystem i
44	c3vx8C_	Alignment	not modelled	10.1	13	**PDB header:**ligase **Chain:** C: **PDB Molecule:**autophagy-related protein 3; **PDBTitle:** crystal structure of arabidopsis thaliana atg7ntd-atg3 complex
45	c6nd1D_	Alignment	not modelled	10.0	21	**PDB header:**protein transport **Chain:** D: **PDB Molecule:**protein transport protein sbh1; **PDBTitle:** cryoem structure of the sec complex from yeast
46	c1g6uB_	Alignment	not modelled	9.9	39	**PDB header:**de novo protein **Chain:** B: **PDB Molecule:**domain swapped dimer; **PDBTitle:** crystal structure of a domain swapped dimer
47	c2v51E_	Alignment	not modelled	9.7	31	**PDB header:**structural protein/contractile protein **Chain:** E: **PDB Molecule:**mkl/myocardin-like protein 1; **PDBTitle:** structure of mal-rpel1 complexed to actin
48	c6h3cC_	Alignment	not modelled	9.0	23	**PDB header:**signaling protein **Chain:** C: **PDB Molecule:**brisc and brca1-a complex member 2; **PDBTitle:** cryo-em structure of the brisc complex bound to shmt2
49	c6nhwA_	Alignment	not modelled	8.3	27	**PDB header:**immune system **Chain:** A: **PDB Molecule:**tumor necrosis factor receptor superfamily member 10b; **PDBTitle:** structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
50	c6nhwC_	Alignment	not modelled	8.3	27	**PDB header:**immune system **Chain:** C: **PDB Molecule:**tumor necrosis factor receptor superfamily member 10b; **PDBTitle:** structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
51	c6nhwD_	Alignment	not modelled	8.3	27	**PDB header:**immune system **Chain:** D: **PDB Molecule:**tumor necrosis factor receptor superfamily member 10b; **PDBTitle:** structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
52	c6nhwB_	Alignment	not modelled	8.3	27	**PDB header:**immune system **Chain:** B: **PDB Molecule:**tumor necrosis factor receptor superfamily member 10b; **PDBTitle:** structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
53	c4ymkA_	Alignment	not modelled	8.2	10	**PDB header:**oxidoreductase **Chain:** A: **PDB Molecule:**acyl-coa desaturase 1;

						PDBTitle: crystal structure of stearoyl-coenzyme a desaturase 1
54	c2v51F_	Alignment	not modelled	8.2	31	**PDB header:**structural protein/contractile protein **Chain:** F: **PDB Molecule:**mkl/myocardin-like protein 1; **PDBTitle:** structure of mal-rpel1 complexed to actin
55	d1eysl_	Alignment	not modelled	8.0	13	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
56	c4m48A_	Alignment	not modelled	7.9	25	**PDB header:**transport protein **Chain:** A: **PDB Molecule:**transporter; **PDBTitle:** x-ray structure of dopamine transporter elucidates antidepressant2 mechanism
57	c4px7A_	Alignment	not modelled	7.9	14	**PDB header:**hydrolase **Chain:** A: **PDB Molecule:**phosphatidylglycerophosphatase; **PDBTitle:** crystal structure of lipid phosphatase e. coli pgpb
58	d1xhmb1	Alignment	not modelled	7.6	18	**Fold:**Non-globular all-alpha subunits of globular proteins **Superfamily:**Transducin (heterotrimeric G protein), gamma chain **Family:**Transducin (heterotrimeric G protein), gamma chain
59	c1xhmB_	Alignment	not modelled	7.5	18	**PDB header:**signaling protein **Chain:** B: **PDB Molecule:**guanine nucleotide-binding protein g(i)/g(s) **PDBTitle:** the crystal structure of a biologically active peptide2 (sigk) bound to a g protein beta:gamma heterodimer
60	c5zgbI_	Alignment	not modelled	6.9	26	**PDB header:**photosynthesis **Chain:** I: **PDB Molecule:**psai; **PDBTitle:** cryo-em structure of the red algal psi-lhcr
61	c5eurC_	Alignment	not modelled	6.8	30	**PDB header:**unknown function **Chain:** C: **PDB Molecule:**uncharacterized protein; **PDBTitle:** hypothetical protein sf216 from shigella flexneri 5a m90t
62	d1v54d_	Alignment	not modelled	6.8	17	**Fold:**Single transmembrane helix **Superfamily:**Mitochondrial cytochrome c oxidase subunit IV **Family:**Mitochondrial cytochrome c oxidase subunit IV
63	c5lc5c_	Alignment	not modelled	6.6	18	**PDB header:**oxidoreductase **Chain:** C: **PDB Molecule:**nadh dehydrogenase [ubiquinone] iron-sulfur protein 3, **PDBTitle:** structure of mammalian respiratory complex i, class2
64	c5ldwc_	Alignment	not modelled	6.6	18	**PDB header:**oxidoreductase **Chain:** C: **PDB Molecule:**nadh dehydrogenase [ubiquinone] iron-sulfur protein 3, **PDBTitle:** structure of mammalian respiratory complex i, class1
65	c2hz8A_	Alignment	not modelled	6.6	33	**PDB header:**de novo protein **Chain:** A: **PDB Molecule:**de novo designed diiron protein; **PDBTitle:** qm/mm structure refined from nmr-structure of a single2 chain diiron protein
66	c1izlJ_	Alignment	not modelled	6.6	14	**PDB header:**photosynthesis **Chain:** J: **PDB Molecule:**photosystem ii: subunit psba; **PDBTitle:** crystal structure of photosystem ii
67	c2kncB_	Alignment	not modelled	6.5	20	**PDB header:**cell adhesion **Chain:** B: **PDB Molecule:**integrin beta-3; **PDBTitle:** platelet integrin alfaiib-beta3 transmembrane-cytoplasmic2 heterocomplex
68	c6nhwF_	Alignment	not modelled	6.5	27	**PDB header:**immune system **Chain:** F: **PDB Molecule:**tumor necrosis factor receptor superfamily member 10b; **PDBTitle:** structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
69	c2y69Q_	Alignment	not modelled	6.4	17	**PDB header:**electron transport **Chain:** Q: **PDB Molecule:**cytochrome c oxidase subunit 4 isoform 1; **PDBTitle:** bovine heart cytochrome c oxidase re-refined with molecular oxygen
70	c5zghI_	Alignment	not modelled	6.3	28	**PDB header:**photosynthesis **Chain:** I: **PDB Molecule:**psai; **PDBTitle:** cryo-em structure of the red algal psi-lhcr
71	c4cgcC_	Alignment	not modelled	6.2	28	**PDB header:**cell cycle **Chain:** C: **PDB Molecule:**echinoderm microtubule-associated protein-like 4; **PDBTitle:** crystal structure of the trimerization domain of human eml4
72	c3j2wE_	Alignment	not modelled	5.8	37	**PDB header:**virus **Chain:** E: **PDB Molecule:**glycoprotein e1; **PDBTitle:** electron cryo-microscopy of chikungunya virus
73	c3j2wH_	Alignment	not modelled	5.8	37	**PDB header:**virus **Chain:** H: **PDB Molecule:**glycoprotein e1; **PDBTitle:** electron cryo-microscopy of chikungunya virus
74	d1g72b_	Alignment	not modelled	5.7	29	**Fold:**Non-globular all-alpha subunits of globular proteins **Superfamily:**Methanol dehydrogenase subunit **Family:**Methanol dehydrogenase subunit
75	c2drxA_	Alignment	not modelled	5.4	55	**PDB header:**structural protein **Chain:** A: **PDB Molecule:**collagen like peptide; **PDBTitle:** structure analysis of (pog)4-(log)2-(pog)4
76	c5g25A_	Alignment	not modelled	5.1	29	**PDB header:**structural protein **Chain:** A: **PDB Molecule:**type-iv like competence pilin ttha1218; **PDBTitle:** type iv-like pilin ttha1218 from thermus thermophilus