
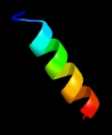







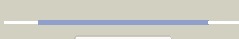

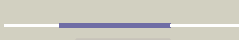



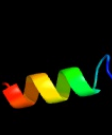






# Phyre2

Email mdejesus@rockefeller.edu  
 Description RVBD1028A\_(kdpF)\_1151924\_1152016  
 Date Wed Jul 31 22:05:10 BST 2019  
 Unique Job ID e362ec5d61c40d1b

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c6fosl_</a>	 Alignment		55.2	53	<b>PDB header:</b> photosynthesis <b>Chain:</b> I: <b>PDB Molecule:</b> photosystem i reaction center subunit viii; <b>PDBTitle:</b> cyanidioschyzon merolae photosystem i
2	<a href="#">c5zgb1_</a>	 Alignment		43.8	53	<b>PDB header:</b> photosynthesis <b>Chain:</b> I: <b>PDB Molecule:</b> psai; <b>PDBTitle:</b> cryo-em structure of the red algal psi-lhcr
3	<a href="#">c6igz1_</a>	 Alignment		42.8	47	<b>PDB header:</b> plant protein <b>Chain:</b> I: <b>PDB Molecule:</b> psai; <b>PDBTitle:</b> structure of psi-lhcr
4	<a href="#">c5zgh1_</a>	 Alignment		41.7	53	<b>PDB header:</b> photosynthesis <b>Chain:</b> I: <b>PDB Molecule:</b> psai; <b>PDBTitle:</b> cryo-em structure of the red algal psi-lhcr
5	<a href="#">c4rkul_</a>	 Alignment		23.8	47	<b>PDB header:</b> photosynthesis <b>Chain:</b> I: <b>PDB Molecule:</b> photosystem i reaction center subunit viii; <b>PDBTitle:</b> crystal structure of plant photosystem i at 3 angstrom resolution
6	<a href="#">c6b87C_</a>	 Alignment		20.9	37	<b>PDB header:</b> membrane protein <b>Chain:</b> C: <b>PDB Molecule:</b> tmhc2_e; <b>PDBTitle:</b> crystal structure of transmembrane protein tmhc2_e
7	<a href="#">c6ijol_</a>	 Alignment		18.9	47	<b>PDB header:</b> photosynthesis <b>Chain:</b> I: <b>PDB Molecule:</b> psai; <b>PDBTitle:</b> photosystem i of chlamydomonas reinhardtii
8	<a href="#">c4y281_</a>	 Alignment		18.9	47	<b>PDB header:</b> photosynthesis <b>Chain:</b> I: <b>PDB Molecule:</b> photosystem i reaction center subunit viii; <b>PDBTitle:</b> the structure of plant photosystem i super-complex at 2.8 angstrom2 resolution.
9	<a href="#">c6jo51_</a>	 Alignment		18.1	47	<b>PDB header:</b> photosynthesis <b>Chain:</b> I: <b>PDB Molecule:</b> photosystem i reaction center subunit viii; <b>PDBTitle:</b> structure of the green algal photosystem i supercomplex with light-2 harvesting complex i
10	<a href="#">c4xk8i_</a>	 Alignment		15.9	47	<b>PDB header:</b> photosynthesis <b>Chain:</b> I: <b>PDB Molecule:</b> photosystem i reaction center subunit viii; <b>PDBTitle:</b> crystal structure of plant photosystem i-lhcr super-complex at 2.82 angstrom resolution
11	<a href="#">c3j2wH_</a>	 Alignment		15.8	46	<b>PDB header:</b> virus <b>Chain:</b> H: <b>PDB Molecule:</b> glycoprotein e1; <b>PDBTitle:</b> electron cryo-microscopy of chikungunya virus

12	<a href="#">c3j2wE_</a>	Alignment		15.8	46	<b>PDB header:</b> virus <b>Chain:</b> E; <b>PDB Molecule:</b> glycoprotein e1; <b>PDBTitle:</b> electron cryo-microscopy of chikungunya virus
13	<a href="#">c4xk8I_</a>	Alignment		15.8	47	<b>PDB header:</b> photosynthesis <b>Chain:</b> I; <b>PDB Molecule:</b> photosystem i reaction center subunit viii; <b>PDBTitle:</b> crystal structure of plant photosystem i-lhci super-complex at 2.82 angstrom resolution
14	<a href="#">c5zjil_</a>	Alignment		15.8	47	<b>PDB header:</b> membrane protein <b>Chain:</b> I; <b>PDB Molecule:</b> photosystem i reaction center subunit viii; <b>PDBTitle:</b> structure of photosystem i supercomplex with light-harvesting2 complexes i and ii
15	<a href="#">c5l8rI_</a>	Alignment		15.7	47	<b>PDB header:</b> oxidoreductase <b>Chain:</b> I; <b>PDB Molecule:</b> photosystem i reaction center subunit viii; <b>PDBTitle:</b> the structure of plant photosystem i super-complex at 2.6 angstrom2 resolution.
16	<a href="#">c6ithA_</a>	Alignment		13.4	36	<b>PDB header:</b> membrane protein <b>Chain:</b> A; <b>PDB Molecule:</b> syndecan-2; <b>PDBTitle:</b> structure of the transmembrane domain of syndecan 2 in micelles
17	<a href="#">c4pdyA_</a>	Alignment		9.9	29	<b>PDB header:</b> transferase <b>Chain:</b> A; <b>PDB Molecule:</b> aminoglycoside phosphotransferase; <b>PDBTitle:</b> crystal structure of aminoglycoside phosphotransferase from2 alicyclobacillus acidocaldarius subsp. acidocaldarius dsm 446
18	<a href="#">c2jo1A_</a>	Alignment		8.4	42	<b>PDB header:</b> hydrolase regulator <b>Chain:</b> A; <b>PDB Molecule:</b> phospholemman; <b>PDBTitle:</b> structure of the na,k-atpase regulatory protein fxyd1 in2 micelles
19	<a href="#">c5jlnB_</a>	Alignment		7.4	43	<b>PDB header:</b> signaling protein <b>Chain:</b> B; <b>PDB Molecule:</b> sensory rhodopsin ii transducer; <b>PDBTitle:</b> structure of the srii/htrii(g83f) complex in p212121 space group ("v"2 shape)
20	<a href="#">c5jlnD_</a>	Alignment		7.4	43	<b>PDB header:</b> signaling protein <b>Chain:</b> D; <b>PDB Molecule:</b> sensory rhodopsin ii transducer; <b>PDBTitle:</b> structure of the srii/htrii(g83f) complex in p212121 space group ("v"2 shape)
21	<a href="#">c2o01I_</a>	Alignment	not modelled	7.3	47	<b>PDB header:</b> photosynthesis <b>Chain:</b> I; <b>PDB Molecule:</b> photosystem i reaction center subunit viii; <b>PDBTitle:</b> the structure of a plant photosystem i supercomplex at 3.4 angstrom2 resolution
22	<a href="#">c2mkvA_</a>	Alignment	not modelled	7.3	26	<b>PDB header:</b> transport protein <b>Chain:</b> A; <b>PDB Molecule:</b> sodium/potassium-transporting atpase subunit gamma; <b>PDBTitle:</b> structure of the na,k-atpase regulatory protein fxyd2b in micelles
23	<a href="#">d1ehkb2</a>	Alignment	not modelled	7.2	56	<b>Fold:</b> Transmembrane helix hairpin <b>Superfamily:</b> Cytochrome c oxidase subunit II-like, transmembrane region <b>Family:</b> Cytochrome c oxidase subunit II-like, transmembrane region
24	<a href="#">c2jp3A_</a>	Alignment	not modelled	6.9	26	<b>PDB header:</b> transcription <b>Chain:</b> A; <b>PDB Molecule:</b> fxyd domain-containing ion transport regulator 4; <b>PDBTitle:</b> solution structure of the human fxyd4 (chif) protein in sds2 micelles
25	<a href="#">c3ebnD_</a>	Alignment	not modelled	6.3	36	<b>PDB header:</b> hydrolase <b>Chain:</b> D; <b>PDB Molecule:</b> replicase polyprotein 1ab; <b>PDBTitle:</b> a special dimerization of sars-cov main protease c-terminal2 domain due to domain-swapping