


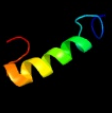







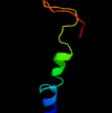



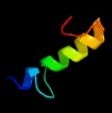

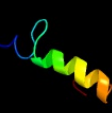






Phyre2

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 Description RVBD1799_(lppT)_2039166_2039357
 Date Fri Aug 2 13:30:41 BST 2019
 Unique Job ID fccee16f889e2cd5

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c6ijo4_	 Alignment		43.3	50	PDB header: photosynthesis Chain: 4; PDB Molecule: lhca4; PDBTitle: photosystem i of chlamydomonas reinhardtii
2	c6igz6_	 Alignment		41.1	31	PDB header: plant protein Chain: 6; PDB Molecule: lhca-g; PDBTitle: structure of psi-lhci
3	c6igz7_	 Alignment		40.6	50	PDB header: plant protein Chain: 7; PDB Molecule: lhca-h; PDBTitle: structure of psi-lhci
4	c6igz3_	 Alignment		40.4	36	PDB header: plant protein Chain: 3; PDB Molecule: lhca-d; PDBTitle: structure of psi-lhci
5	c6igz4_	 Alignment		38.5	45	PDB header: plant protein Chain: 4; PDB Molecule: lhca-b; PDBTitle: structure of psi-lhci
6	c2wsf2_	 Alignment		37.3	29	PDB header: photosynthesis Chain: 2; PDB Molecule: type ii chlorophyll a/b binding protein from photosystem i; PDBTitle: improved model of plant photosystem i
7	c6ijo2_	 Alignment		36.8	38	PDB header: photosynthesis Chain: 2; PDB Molecule: lhca2; PDBTitle: photosystem i of chlamydomonas reinhardtii
8	c3jcuR_	 Alignment		36.2	38	PDB header: membrane protein Chain: R; PDB Molecule: chlorophyll a-b binding protein 29 kd (cp29); PDBTitle: cryo-em structure of spinach psii-lhcii supercomplex at 3.2 angstrom2 resolution
9	c6igz2_	 Alignment		36.0	42	PDB header: plant protein Chain: 2; PDB Molecule: lhca-c; PDBTitle: structure of psi-lhci
10	c6ijo6_	 Alignment		35.3	42	PDB header: photosynthesis Chain: 6; PDB Molecule: lhca6; PDBTitle: photosystem i of chlamydomonas reinhardtii
11	c6ijj8_	 Alignment		35.3	42	PDB header: membrane protein Chain: 8; PDB Molecule: lhca8; PDBTitle: photosystem i of chlamydomonas reinhardtii

12	c5zgh1_	Alignment		35.2	35	PDB header: photosynthesis Chain: 1: PDB Molecule: lhcr1; PDBTitle: cryo-em structure of the red algal psi-lhcr
13	c3lw52_	Alignment		34.2	45	PDB header: photosynthesis Chain: 2: PDB Molecule: type ii chlorophyll a/b binding protein from photosystem i; PDB Fragment: residues 81-246; PDBTitle: improved model of plant photosystem i
14	c4rku4_	Alignment		33.5	35	PDB header: photosynthesis Chain: 4: PDB Molecule: chlorophyll a-b binding protein p4, chloroplastic; PDBTitle: crystal structure of plant photosystem i at 3 angstrom resolution
15	c3jcu5_	Alignment		33.5	50	PDB header: membrane protein Chain: 5: PDB Molecule: chlorophyll a-b binding protein 26 kd (cp26); PDBTitle: cryo-em structure of spinach psii-lhcii supercomplex at 3.2 angstrom2 resolution
16	c6ijo1_	Alignment		33.1	59	PDB header: photosynthesis Chain: 1: PDB Molecule: lhca1; PDBTitle: photosystem i of chlamydomonas reinhardtii
17	c6igz9_	Alignment		33.0	38	PDB header: plant protein Chain: 9: PDB Molecule: lhca-i; PDBTitle: structure of psi-lhci
18	c6a2wA_	Alignment		32.5	35	PDB header: photosynthesis Chain: A: PDB Molecule: protein fucoxanthin chlorophyll a/c protein; PDBTitle: crystal structure of fucoxanthin chlorophyll a/c complex from2 phaeodactylum tricornutum
19	c3pl9A_	Alignment		31.5	38	PDB header: photosynthesis Chain: A: PDB Molecule: chlorophyll a-b binding protein; PDBTitle: crystal structure of spinach minor light-harvesting complex cp29 at2 2.80 angstrom resolution
20	c6igz0_	Alignment		31.3	42	PDB header: plant protein Chain: 0: PDB Molecule: lhca-j; PDBTitle: structure of psi-lhci
21	c4xk88_	Alignment	not modelled	30.9	42	PDB header: photosynthesis Chain: 8: PDB Molecule: chlorophyll a-b binding protein 3, chloroplastic; PDB Fragment: unp residues 2-81; PDBTitle: crystal structure of plant photosystem i-lhci super-complex at 2.82 angstrom resolution
22	c5zgh2_	Alignment	not modelled	27.5	45	PDB header: photosynthesis Chain: 2: PDB Molecule: lhcr2; PDBTitle: cryo-em structure of the red algal psi-lhcr
23	c6igz5_	Alignment	not modelled	26.6	35	PDB header: plant protein Chain: 5: PDB Molecule: lhca-a; PDBTitle: structure of psi-lhci
24	d1rwta_	Alignment	not modelled	26.6	42	Fold: Chlorophyll a-b binding protein Superfamily: Chlorophyll a-b binding protein Family: Chlorophyll a-b binding protein
25	c6jo52_	Alignment	not modelled	26.2	45	PDB header: photosynthesis Chain: 2: PDB Molecule: chlorophyll a-b binding protein, chloroplastic; PDBTitle: structure of the green algal photosystem i supercomplex with light-2 harvesting complex i
26	c6ijj7_	Alignment	not modelled	26.2	50	PDB header: membrane protein Chain: 7: PDB Molecule: lhca7; PDBTitle: photosystem i of chlamydomonas reinhardtii
27	c5zgh3_	Alignment	not modelled	26.2	55	PDB header: photosynthesis Chain: 3: PDB Molecule: lhcr3; PDBTitle: cryo-em structure of the red algal psi-lhcr
28	c2o014_	Alignment	not modelled	25.0	41	PDB header: photosynthesis Chain: 4: PDB Molecule: psi light-harvesting antenna chlorophyll a/b-binding PDBTitle: the structure of a plant photosystem i supercomplex at

						3.4 angstrom2 resolution
29	c6fos3	Alignment	not modelled	23.5	45	PDB header: photosynthesis Chain: 3: PDB Molecule: similar to chlorophyll a/b-binding protein, cp24; PDBTitle: cyanidioschyzon merolae photosystem i
30	c2jpwA	Alignment	not modelled	21.6	70	PDB header: contractile protein Chain: A: PDB Molecule: troponin i, cardiac muscle; PDBTitle: solution structure of the bisphosphorylated cardiac2 specific n-extension of cardiac troponin i
31	c2o013	Alignment	not modelled	20.8	50	PDB header: photosynthesis Chain: 3: PDB Molecule: psi type iii chlorophyll a/b-binding protein; PDBTitle: the structure of a plant photosystem i supercomplex at 3.4 angstrom2 resolution
32	c6ijo9	Alignment	not modelled	20.3	45	PDB header: photosynthesis Chain: 9: PDB Molecule: lhca9; PDBTitle: photosystem i of chlamydomonas reinhardtii
33	c2o012	Alignment	not modelled	18.2	45	PDB header: photosynthesis Chain: 2: PDB Molecule: type ii chlorophyll a/b binding protein from photosystem i; PDBTitle: the structure of a plant photosystem i supercomplex at 3.4 angstrom2 resolution
34	c2wse3	Alignment	not modelled	17.7	50	PDB header: photosynthesis Chain: 3: PDB Molecule: lhca3; PDBTitle: improved model of plant photosystem i
35	c2o011	Alignment	not modelled	16.5	34	PDB header: photosynthesis Chain: 1: PDB Molecule: at3g54890; PDBTitle: the structure of a plant photosystem i supercomplex at 3.4 angstrom2 resolution
36	c2wsc1	Alignment	not modelled	14.8	92	PDB header: photosynthesis Chain: 1: PDB Molecule: at3g54890; PDBTitle: improved model of plant photosystem i
37	c5mdx4	Alignment	not modelled	14.0	43	PDB header: photosynthesis Chain: 4: PDB Molecule: chlorophyll a-b binding protein, chloroplastic; PDBTitle: cryo-em structure of the psii supercomplex from arabidopsis thaliana
38	c3wmmY	Alignment	not modelled	10.8	40	PDB header: photosynthesis Chain: Y: PDB Molecule: lh1 alpha polypeptide; PDBTitle: crystal structure of the lh1-rc complex from thermochromatium tepidum2 in c2 form
39	c6et5b	Alignment	not modelled	8.5	53	PDB header: photosynthesis Chain: B: PDB Molecule: PDBTitle: reaction centre light harvesting complex 1 from blc. viridis
40	c2lf0A	Alignment	not modelled	8.3	60	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein yibj; PDBTitle: solution structure of sf3636, a two-domain unknown function protein2 from shigella flexneri 2a, determined by joint refinement of nmr,3 residual dipolar couplings and small-angle x-ray scattering, nesg4 target sfr339/ocsp target sf3636
41	d1xrda1	Alignment	not modelled	8.2	40	Fold: Light-harvesting complex subunits Superfamily: Light-harvesting complex subunits Family: Light-harvesting complex subunits
42	c1xrdA	Alignment	not modelled	8.2	40	PDB header: membrane protein Chain: A: PDB Molecule: light-harvesting protein b-880, alpha chain; PDBTitle: light-harvesting complex 1 alfa subunit from wild-type2 rhodospirillum rubrum
43	c3l48B	Alignment	not modelled	8.0	33	PDB header: transport protein Chain: B: PDB Molecule: outer membrane usher protein papc; PDBTitle: crystal structure of the c-terminal domain of the papc usher
44	c1pxqA	Alignment	not modelled	7.8	44	PDB header: antimicrobial protein Chain: A: PDB Molecule: subtilisin a; PDBTitle: structure of subtilisin a
45	d1s99a	Alignment	not modelled	7.7	14	Fold: Ferredoxin-like Superfamily: MTH1187/YkoF-like Family: Putative thiamin/HMP-binding protein YkoF
46	c2wse4	Alignment	not modelled	7.1	22	PDB header: photosynthesis Chain: 4: PDB Molecule: chlorophyll a-b binding protein p4, chloroplastic; PDBTitle: improved model of plant photosystem i
47	c2xetB	Alignment	not modelled	7.0	25	PDB header: transport protein Chain: B: PDB Molecule: f1 capsule-anchoring protein; PDBTitle: conserved hydrophobic clusters on the surface of the caf1a usher2 c-terminal domain are important for f1 antigen assembly
48	c4p5nB	Alignment	not modelled	5.9	56	PDB header: structural genomics Chain: B: PDB Molecule: hypothetical protein cnag_02591; PDBTitle: structure of cnag_02591 from cryptococcus neoformans
49	d2q78a1	Alignment	not modelled	5.3	26	Fold: Thioesterase/thiol ester dehydrase-isomerase Superfamily: Thioesterase/thiol ester dehydrase-isomerase Family: TTHA0967-like