
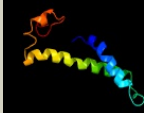



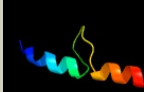

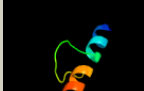





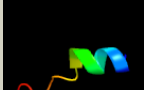










Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0471c_(-)_562228_562716
Date	Tue Jul 23 14:50:55 BST 2019
Unique Job ID	0c7c4a0f03b30461

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4od5C_	 Alignment		97.9	22	PDB header: transferase Chain: C: PDB Molecule: 4-hydroxybenzoate octaprenyltransferase; PDBTitle: substrate-bound structure of a ubia homolog from aeropyrum pernix k1
2	c3llwA_	 Alignment		38.5	11	PDB header: transferase Chain: A: PDB Molecule: geranyltranstransferase (ispa); PDBTitle: crystal structure of geranyltransferase from helicobacter pylori 26695
3	c2momC_	 Alignment		28.3	30	PDB header: membrane protein Chain: C: PDB Molecule: lysosome-associated membrane glycoprotein 2; PDBTitle: structural insights of tm domain of lamp-2a in dpc micelles
4	c2momB_	 Alignment		25.7	30	PDB header: membrane protein Chain: B: PDB Molecule: lysosome-associated membrane glycoprotein 2; PDBTitle: structural insights of tm domain of lamp-2a in dpc micelles
5	c5jfqB_	 Alignment		24.1	18	PDB header: oxidoreductase Chain: B: PDB Molecule: geranylgeranyl pyrophosphate synthetase; PDBTitle: geranylgeranyl pyrophosphate synthetase from archaeon geoglobus2 acetivorans
6	c3p8rA_	 Alignment		19.1	13	PDB header: transferase Chain: A: PDB Molecule: geranyltranstransferase; PDBTitle: crystal structure of polyprenyl synthase from vibrio cholerae
7	c2l4fA_	 Alignment		18.4	40	PDB header: protein binding Chain: A: PDB Molecule: defective in cullin neddylation protein 1; PDBTitle: nmr structure of the uba domain of s. cerevisiae dcn1 bound to2 ubiquitin
8	c3m9uD_	 Alignment		16.5	7	PDB header: transferase Chain: D: PDB Molecule: farnesyl-diphosphate synthase; PDBTitle: crystal structure of geranylgeranyl pyrophosphate synthase from2 lactobacillus brevis atcc 367
9	c2hxqB_	 Alignment		15.9	20	PDB header: isomerase Chain: B: PDB Molecule: l-arabinose isomerase; PDBTitle: crystal structure of mn2+ bound ecai
10	c3ts7B_	 Alignment		14.8	13	PDB header: transferase Chain: B: PDB Molecule: geranyltranstransferase; PDBTitle: crystal structure of farnesyl diphosphate synthase (target efi-501951)2 from methylococcus capsulatus
11	c5xn5A_	 Alignment		13.8	6	PDB header: transferase Chain: A: PDB Molecule: os07g0580900 protein; PDBTitle: homo-dimer crystal structure of geranylgeranyl diphosphate synthases 12 from oryza sativa

12	c2fnqB_	Alignment		12.7	19	PDB header: oxidoreductase Chain: B: PDB Molecule: allene oxide synthase-lipoxygenase protein; PDBTitle: insights from the x-ray crystal structure of coral 8r-2 lipoxygenase: calcium activation via a c2-like domain and3 a structural basis of product chirality
13	d1kn0a_	Alignment		12.4	29	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: The homologous-pairing domain of Rad52 recombinase
14	c3vf1A_	Alignment		10.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: 11r-lipoxygenase; PDBTitle: structure of a calcium-dependent 11r-lipoxygenase suggests a mechanism2 for ca-regulation
15	c2p0mB_	Alignment		10.7	10	PDB header: oxidoreductase Chain: B: PDB Molecule: arachidonate 15-lipoxygenase; PDBTitle: revised structure of rabbit reticulocyte 15s-lipoxygenase
16	c5fnoB_	Alignment		10.4	19	PDB header: oxidoreductase Chain: B: PDB Molecule: manganese lipoxygenase; PDBTitle: manganese lipoxygenase
17	c5h1qC_	Alignment		9.7	16	PDB header: transport protein Chain: C: PDB Molecule: innexin-6; PDBTitle: c. elegans inx-6 gap junction hemichannel
18	d1r4pb_	Alignment		9.1	22	Fold: OB-fold Superfamily: Bacterial enterotoxins Family: Bacterial AB5 toxins, B-subunits
19	c4f62B_	Alignment		9.1	10	PDB header: transferase Chain: B: PDB Molecule: geranyltranstransferase; PDBTitle: crystal structure of a putative farnesyl-diphosphate synthase from2 marinomonas sp. med121 (target efi-501980)
20	c5fx8A_	Alignment		9.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: linoleate 11-lipoxygenase; PDBTitle: complete structure of manganese lipoxygenase of gaeumannomyces2 graminis and partial structure of zonadhesin of komagataella3 pastoris
21	d2bosa_	Alignment	not modelled	8.3	20	Fold: OB-fold Superfamily: Bacterial enterotoxins Family: Bacterial AB5 toxins, B-subunits
22	c3o8yA_	Alignment	not modelled	8.1	24	PDB header: oxidoreductase Chain: A: PDB Molecule: arachidonate 5-lipoxygenase; PDBTitle: stable-5-lipoxygenase
23	c2o1oB_	Alignment	not modelled	8.0	10	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative farnesyl pyrophosphate synthase; PDBTitle: cryptosporidium parvum putative polyprenyl pyrophosphate synthase2 (cgd4_2550) in complex with risedronate.
24	c1z65A_	Alignment	not modelled	7.3	17	PDB header: unknown function Chain: A: PDB Molecule: prion-like protein doppel; PDBTitle: mouse doppel 1-30 peptide
25	c2forB_	Alignment	not modelled	7.1	15	PDB header: transferase Chain: B: PDB Molecule: geranyltranstransferase; PDBTitle: crystal structure of the shigella flexneri farnesyl pyrophosphate2 synthase complex with an isopentenyl pyrophosphate
26	c1wmwA_	Alignment	not modelled	7.1	16	PDB header: transferase Chain: A: PDB Molecule: geranylgeranyl diphosphate synthetase; PDBTitle: crystal structure of geranylgeranyl diphosphate synthase from thermus2 thermophilus
27	c5nx6A_	Alignment	not modelled	6.8	14	PDB header: lyase Chain: A: PDB Molecule: pentalenene synthase; PDBTitle: crystal structure of 1,8-cineole synthase from streptomyces2 clavuligerus in complex with 2-fluoroneryl diphosphate
28	c2azjB_	Alignment	not modelled	6.7	6	PDB header: transferase Chain: B: PDB Molecule: geranylgeranyl pyrophosphate synthetase; PDBTitle: crystal structure for the mutant d81c of sulfolobus2

						solfataricus hexaprenyl pyrophosphate synthase
29	c2n2sA_	Alignment	not modelled	6.2	70	PDB header: signaling protein Chain: A: PDB Molecule: pheromone ep-1; PDBTitle: nmr solution structure of the pheromone ep-1 from euplates petzi
30	d3bnea1	Alignment	not modelled	6.2	19	Fold: Lipoxygenase Superfamily: Lipoxygenase Family: Plant lipoxygenases
31	c1h2iG_	Alignment	not modelled	6.2	29	PDB header: dna binding protein Chain: G: PDB Molecule: dna repair protein rad52 homolog; PDBTitle: human rad52 protein, n-terminal domain
32	c2qn1A_	Alignment	not modelled	5.8	21	PDB header: signaling protein Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a putative dna damage-inducible protein2 (chu_0679) from cytophaga hutchinsonii atcc 33406 at 1.50 a3 resolution
33	c2kqdA_	Alignment	not modelled	5.5	44	PDB header: lyase Chain: A: PDB Molecule: aprataxin and pnk-like factor; PDBTitle: first pbz domain of human aplf protein in complex with2 ribofuranosyladenosine
34	c6mq2D_	Alignment	not modelled	5.3	17	PDB header: de novo protein Chain: D: PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-2
35	d1n81a_	Alignment	not modelled	5.2	18	Fold: Gametocyte protein Pfg27 Superfamily: Gametocyte protein Pfg27 Family: Gametocyte protein Pfg27
36	c6mpwD_	Alignment	not modelled	5.0	17	PDB header: de novo protein Chain: D: PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-1