




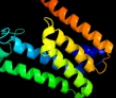


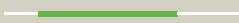
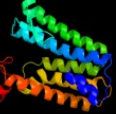

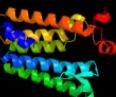









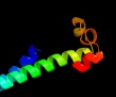
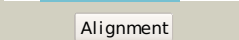

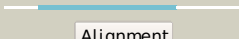






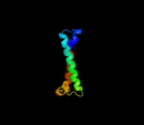

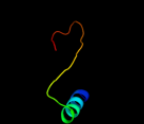


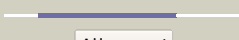



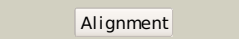

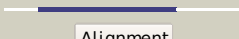
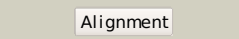
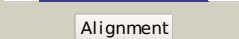
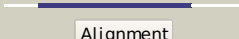

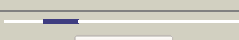



# Phyre2

Email	I.a.kelley@imperial.ac.uk
Description	P0AGK1
Date	Thu Jan 5 11:29:22 GMT 2012
Unique Job ID	ac14cd13b0ed1e93

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c3ts7B_</a>	 Alignment		96.0	16	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> geranyltranstransferase; <b>PDBTitle:</b> crystal structure of farnesyl diphosphate synthase (target efi-501951)2 from methylococcus capsulatus
2	<a href="#">c3m9uD_</a>	 Alignment		91.2	10	<b>PDB header:</b> transferase <b>Chain:</b> D: <b>PDB Molecule:</b> farnesyl-diphosphate synthase; <b>PDBTitle:</b> crystal structure of geranylgeranyl pyrophosphate synthase2 from lactobacillus brevis atcc 367
3	<a href="#">c3lsnA_</a>	 Alignment		79.5	16	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> geranyltranstransferase; <b>PDBTitle:</b> crystal structure of putative geranyltranstransferase from pseudomonas2 fluorescens pf-5 complexed with magnesium
4	<a href="#">d1rqja_</a>	 Alignment		72.6	12	<b>Fold:</b> Terpenoid synthases <b>Superfamily:</b> Terpenoid synthases <b>Family:</b> Isoprenyl diphosphate synthases
5	<a href="#">d1v4ea_</a>	 Alignment		52.4	17	<b>Fold:</b> Terpenoid synthases <b>Superfamily:</b> Terpenoid synthases <b>Family:</b> Isoprenyl diphosphate synthases
6	<a href="#">c3oyrB_</a>	 Alignment		49.2	14	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> trans-isoprenyl diphosphate synthase; <b>PDBTitle:</b> crystal structure of polyprenyl synthase from caulobacter crescentus2 cb15 complexed with calcium and isoprenyl diphosphate
7	<a href="#">c3dh4A_</a>	 Alignment		42.1	16	<b>PDB header:</b> transport protein <b>Chain:</b> A: <b>PDB Molecule:</b> sodium/glucose cotransporter; <b>PDBTitle:</b> crystal structure of sodium/sugar symporter with bound galactose from2 vibrio parahaemolyticus
8	<a href="#">c3npkB_</a>	 Alignment		41.9	9	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> geranyltranstransferase; <b>PDBTitle:</b> the crystal structure of geranyltranstransferase from campylobacter2 jejuni
9	<a href="#">c3p8lB_</a>	 Alignment		41.0	11	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> geranyltranstransferase; <b>PDBTitle:</b> crystal structure of polyprenyl synthase from enterococcus faecalis2 v583
10	<a href="#">c3aqbD_</a>	 Alignment		40.5	14	<b>PDB header:</b> transferase <b>Chain:</b> D: <b>PDB Molecule:</b> component b of hexaprenyl diphosphate synthase; <b>PDBTitle:</b> m. luteus b-p 26 heterodimeric hexaprenyl diphosphate synthase in2 complex with magnesium
11	<a href="#">c2j1oA_</a>	 Alignment		40.1	8	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> geranylgeranyl pyrophosphate synthetase; <b>PDBTitle:</b> geranylgeranyl diphosphate synthase from sinapis alba

12	<a href="#">c3llwA_</a>	 Alignment		38.3	14	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> geranyltranstransferase (ispa); <b>PDBTitle:</b> crystal structure of geranyltransferase from helicobacter2 pylori 26695
13	<a href="#">c3mzvB_</a>	 Alignment		30.3	15	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> decaprenyl diphosphate synthase; <b>PDBTitle:</b> crystal structure of a decaprenyl diphosphate synthase from2 rhodobacter capsulatus
14	<a href="#">c2jl1pB_</a>	 Alignment		28.8	11	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> geranylgeranyl pyrophosphate synthetase; <b>PDBTitle:</b> geranylgeranyl diphosphate synthase from sinapis alba in2 complex with ggpp
15	<a href="#">c3kraB_</a>	 Alignment		25.8	11	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> geranyl diphosphate synthase small subunit; <b>PDBTitle:</b> mint heterotetrameric geranyl pyrophosphate synthase in2 complex with magnesium
16	<a href="#">c2e8xB_</a>	 Alignment		21.1	8	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> geranylgeranyl pyrophosphate synthetase; <b>PDBTitle:</b> s. cerevisiae geranylgeranyl pyrophosphate synthase in2 complex with magnesium and gpp
17	<a href="#">d1diha2</a>	 Alignment		18.0	24	<b>Fold:</b> FwdE/GAPDH domain-like <b>Superfamily:</b> Glyceraldehyde-3-phosphate dehydrogenase-like, C-terminal domain <b>Family:</b> Dihydrodipicolinate reductase-like
18	<a href="#">c1wmwA_</a>	 Alignment		17.5	13	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> geranylgeranyl diphosphate synthetase; <b>PDBTitle:</b> crystal structure of geranylgeranyl diphosphate synthase from thermus2 thermophilus
19	<a href="#">c1wy0A_</a>	 Alignment		13.7	12	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> geranylgeranyl pyrophosphate synthetase; <b>PDBTitle:</b> crystal structure of geranylgeranyl pyrophosphate synthetase from2 pyrococcus horikoshii ot3
20	<a href="#">c3ez3A_</a>	 Alignment		13.6	9	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> farnesyl pyrophosphate synthase, putative; <b>PDBTitle:</b> crystal structure of plasmodium vivax geranylgeranylpyrophosphate2 synthase pvx_092040 with zoledronate and ipp bound
21	<a href="#">c2ftzA_</a>	 Alignment	not modelled	12.7	12	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> geranyltranstransferase; <b>PDBTitle:</b> crystal structure of geranyltranstransferase (ec 2.5.1.10) (tm0161)2 from thermotoga maritima at 1.90 a resolution
22	<a href="#">c3nf2A_</a>	 Alignment	not modelled	12.4	13	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> putative polyprenyl synthetase; <b>PDBTitle:</b> crystal structure of polyprenyl synthetase from streptomyces2 coelicolor a3(2)
23	<a href="#">d2q80a1</a>	 Alignment	not modelled	7.5	14	<b>Fold:</b> Terpenoid synthases <b>Superfamily:</b> Terpenoid synthases <b>Family:</b> Isoprenyl diphosphate synthases
24	<a href="#">d1vm6a2</a>	 Alignment	not modelled	6.0	15	<b>Fold:</b> FwdE/GAPDH domain-like <b>Superfamily:</b> Glyceraldehyde-3-phosphate dehydrogenase-like, C-terminal domain <b>Family:</b> Dihydrodipicolinate reductase-like
25	<a href="#">c2xq2A_</a>	 Alignment	not modelled	5.5	15	<b>PDB header:</b> transport protein <b>Chain:</b> A: <b>PDB Molecule:</b> sodium/glucose cotransporter; <b>PDBTitle:</b> structure of the k294a mutant of vsplt
26	<a href="#">c3lomA_</a>	 Alignment	not modelled	5.4	16	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> geranyltranstransferase; <b>PDBTitle:</b> crystal structure of geranyltransferase from legionella2 pneumophila
27	<a href="#">c3sahA_</a>	 Alignment	not modelled	5.3	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> exosome component 10; <b>PDBTitle:</b> crystal structure of the human rrp6 catalytic domain with y436a2 mutation in the catalytic site
28	<a href="#">c1drwA_</a>	 Alignment	not modelled	5.2	24	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> dihydrodipicolinate reductase; <b>PDBTitle:</b> escherichia coli dhpr/nhdh complex
						<b>PDB header:</b> transferase

29	<a href="#">c3tc1A_</a>	<div>Alignment</div>	not modelled	5.2	10	<b>Chain:</b> A: <b>PDB Molecule:</b> octaprenyl pyrophosphate synthase; <b>PDBTitle:</b> crystal structure of octaprenyl pyrophosphate synthase from2 helicobacter pylori
30	<a href="#">c3rmgB_</a>	<div>Alignment</div>	not modelled	5.1	15	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> octaprenyl-diphosphate synthase; <b>PDBTitle:</b> crystal structure of geranylgeranyl pyrophosphate synthase from2 bacteroides thetaiotaomicron