


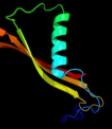

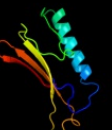





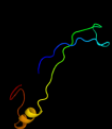



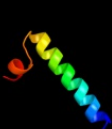



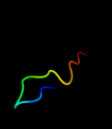


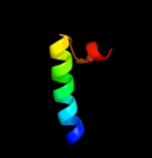
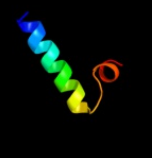
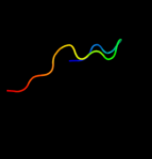

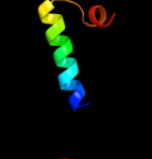
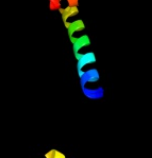
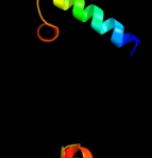
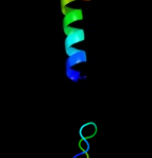
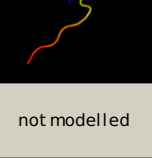


Phyre2

Email	I.a.kelley@imperial.ac.uk
Description	P0AEA2
Date	Wed Jan 25 15:20:30 GMT 2012
Unique Job ID	6fe70837e1bd5b72

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d2hqs2	 Alignment		98.3	21	Fold: Anticodon-binding domain-like Superfamily: TolB, N-terminal domain Family: TolB, N-terminal domain
2	d2iqia1	 Alignment		96.4	15	Fold: Anticodon-binding domain-like Superfamily: XCC0632-like Family: XCC0632-like
3	c3ly8A_	 Alignment		87.5	13	PDB header: signaling protein Chain: A: PDB Molecule: transcriptional activator cadc; PDBTitle: crystal structure of mutant d471e of the periplasmic domain of cadc
4	d1wuea2	 Alignment		41.0	18	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
5	c2w8bB_	 Alignment		32.6	20	PDB header: protein transport/membrane protein Chain: B: PDB Molecule: protein tolB; PDBTitle: crystal structure of processed tolB in complex with pal
6	d2czra1	 Alignment		21.3	23	Fold: Restriction endonuclease-like Superfamily: TBP-interacting protein-like Family: TBP-interacting protein-like
7	d2gdqa2	 Alignment		20.5	13	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
8	d2mnra2	 Alignment		20.5	10	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
9	d1sjda2	 Alignment		19.7	15	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
10	c3lo7A_	 Alignment		18.6	40	PDB header: transferase Chain: A: PDB Molecule: penicillin-binding protein a; PDBTitle: crystal structure of pbpa from mycobacterium tuberculosis
11	d1wufa2	 Alignment		17.8	19	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like

12	d1jpma2	Alignment		17.8	11	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
13	d1jpdx2	Alignment		17.3	19	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
14	c3ue3A_	Alignment		16.9	47	PDB header: transferase Chain: A: PDB Molecule: septum formation, penicillin binding protein 3, PDBTitle: crystal structure of acinetobacter baumannii pbp3
15	d1jdfa2	Alignment		16.6	14	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
16	d1r0ma2	Alignment		16.5	15	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
17	d2gl5a2	Alignment		16.3	19	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
18	d2chra2	Alignment		16.2	15	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
19	d1nu5a2	Alignment		15.0	19	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
20	d1rp5a4	Alignment		14.5	40	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
21	d1vqqa3	Alignment	not modelled	14.4	40	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
22	d1k25a4	Alignment	not modelled	14.2	40	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
23	d1muca2	Alignment	not modelled	12.4	15	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
24	c3equb_	Alignment	not modelled	11.0	53	PDB header: biosynthetic protein Chain: B: PDB Molecule: penicillin-binding protein 2; PDBTitle: crystal structure of penicillin-binding protein 2 from neisseria2 gonorrhoeae
25	d1bqqa2	Alignment	not modelled	10.2	13	Fold: Enolase N-terminal domain-like Superfamily: Enolase N-terminal domain-like Family: Enolase N-terminal domain-like
26	c3pbqA_	Alignment	not modelled	9.6	47	PDB header: hydrolase/antibiotic Chain: A: PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of pbp3 complexed with imipenem
27	c3mbrX_	Alignment	not modelled	9.3	25	PDB header: transferase Chain: X: PDB Molecule: glutamine cyclotransferase; PDBTitle: crystal structure of the glutamyl cyclase from xanthomonas2 campestris
28	d1pyya4	Alignment	not modelled	9.2	40	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
						PDB header: biosynthetic protein Chain: A: PDB Molecule: penicillin-binding protein 2a;

29	c1mwuA_	Alignment	not modelled	9.0	40	PDBTitle: structure of methicillin acyl-penicillin binding protein 2a2 from methicillin resistant staphylococcus aureus strain3 27r at 2.60 a resolution.
30	d2c5wb1	Alignment	not modelled	8.7	29	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
31	d1tw3a1	Alignment	not modelled	8.2	16	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Plant O-methyltransferase, N-terminal domain
32	c2xzmE_	Alignment	not modelled	8.1	17	PDB header: ribosome Chain: E: PDB Molecule: ribosomal protein s5 containing protein; PDBTitle: crystal structure of the eukaryotic 40s ribosomal2 subunit in complex with initiation factor 1. this file3 contains the 40s subunit and initiation factor for4 molecule 1
33	c3nqyA_	Alignment	not modelled	8.0	42	PDB header: hydrolase Chain: A: PDB Molecule: secreted metalloprotease mcp02; PDBTitle: crystal structure of the autoprocessed complex of vibriolysin mcp-022 with a single point mutation e346a
34	c3oc2A_	Alignment	not modelled	7.8	47	PDB header: penicillin-binding protein Chain: A: PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of penicillin-binding protein 3 from pseudomonas2 aeruginosa
35	c2wadB_	Alignment	not modelled	6.6	33	PDB header: peptide binding protein Chain: B: PDB Molecule: penicillin-binding protein 2b; PDBTitle: penicillin-binding protein 2b (pbp-2b) from streptococcus2 pneumoniae (strain 5204)
36	d2bg1a1	Alignment	not modelled	6.2	36	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
37	d1svda1	Alignment	not modelled	6.2	20	Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain
38	c1x37A_	Alignment	not modelled	6.0	21	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent protease la 1; PDBTitle: structure of bacillus subtilis lon protease ssd domain
39	c2kbxA_	Alignment	not modelled	5.8	11	PDB header: cell adhesion Chain: A: PDB Molecule: integrin-linked protein kinase; PDBTitle: solution structure of ilk-pinch complex
40	c3cb3B_	Alignment	not modelled	5.7	12	PDB header: isomerase Chain: B: PDB Molecule: mandelate racemase/muconate lactonizing enzyme; PDBTitle: crystal structure of l-tartrate dehydratase from polaromonas sp. js6662 complexed with mg and l-glucarate
41	d1bwva1	Alignment	not modelled	5.6	17	Fold: TIM beta/alpha-barrel Superfamily: RuBisCo, C-terminal domain Family: RuBisCo, large subunit, C-terminal domain
42	c1qmfA_	Alignment	not modelled	5.5	40	PDB header: peptidoglycan synthesis Chain: A: PDB Molecule: penicillin-binding protein 2x; PDBTitle: penicillin-binding protein 2x (pbp-2x) acyl-enzyme complex
43	d2hc5a1	Alignment	not modelled	5.5	29	Fold: FlaG-like Superfamily: FlaG-like Family: FlaG-like
44	d1qzza1	Alignment	not modelled	5.5	17	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Plant O-methyltransferase, N-terminal domain
45	d2olua2	Alignment	not modelled	5.3	14	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
46	c3onrl_	Alignment	not modelled	5.2	14	PDB header: metal binding protein Chain: I: PDB Molecule: protein transport protein sece2; PDBTitle: crystal structure of the calcium chelating immunodominant antigen,2 calcium dodecin (rv0379),from mycobacterium tuberculosis with a novel3 calcium-binding site