
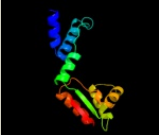

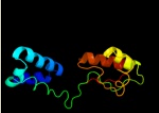




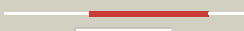













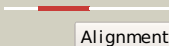






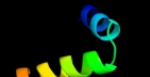









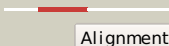




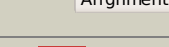


Phyre2

Email	l.a.kelley@imperial.ac.uk
Description	P48860
Date	Tue Jul 17 17:05:10 BST 2012
Unique Job ID	dd319d49e640022d

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1giyl_	 Alignment		100.0	62	PDB header: ribosome Chain: J; PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: crystal structure of the ribosome at 5.5 a resolution. this2 file, 1giy, contains the 50s ribosome subunit. the 30s3 ribosome subunit, three trna, and mrna molecules are in the4 file 1gix
2	c2gya3_	 Alignment		100.0	58	PDB header: ribosome Chain: 3; PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: structure of the 50s subunit of a pre-translocational e.2 coli ribosome obtained by fitting atomic models for rna and3 protein components into cryo-em map emd-1056
3	c2ftcF_	 Alignment		100.0	35	PDB header: ribosome Chain: F; PDB Molecule: 39s ribosomal protein l12, mitochondrial; PDBTitle: structural model for the large subunit of the mammalian mitochondrial2 ribosome
4	d2zjq51	 Alignment		99.9	58	Fold: ClpS-like Superfamily: ClpS-like Family: Ribosomal protein L7/12, C-terminal domain
5	c2zjq5_	 Alignment		99.9	58	PDB header: ribosome Chain: 5; PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: interaction of l7 with l11 induced by micrococcin binding2 to the deinococcus radiodurans 50s subunit
6	d1ctfa_	 Alignment		99.9	59	Fold: ClpS-like Superfamily: ClpS-like Family: Ribosomal protein L7/12, C-terminal domain
7	d1dd3a2	 Alignment		99.9	62	Fold: ClpS-like Superfamily: ClpS-like Family: Ribosomal protein L7/12, C-terminal domain
8	d1dd3a1	 Alignment		99.0	55	Fold: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Superfamily: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Family: Ribosomal protein L7/12, oligomerisation (N-terminal) domain
9	d1dd4d_	 Alignment		98.3	63	Fold: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Superfamily: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Family: Ribosomal protein L7/12, oligomerisation (N-terminal) domain
10	d1dd4c_	 Alignment		97.8	58	Fold: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Superfamily: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Family: Ribosomal protein L7/12, oligomerisation (N-terminal) domain
11	d2gyc31	 Alignment		97.5	51	Fold: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Superfamily: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Family: Ribosomal protein L7/12, oligomerisation (N-terminal) domain

12	c1dd3C_	 Alignment		97.5	53	PDB header: ribosome Chain: C: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: crystal structure of ribosomal protein l12 from thermotoga maritima
13	c1dd3D_	 Alignment		97.5	53	PDB header: ribosome Chain: D: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: crystal structure of ribosomal protein l12 from thermotoga maritima
14	c1rqtB_	 Alignment		97.0	53	PDB header: ribosome Chain: B: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: nmr structure of dimeric n-terminal domain of ribosomal2 protein l7 from e.coli
15	d1rqtA_	 Alignment		97.0	53	Fold: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Superfamily: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Family: Ribosomal protein L7/12, oligomerisation (N-terminal) domain
16	c1rqtA_	 Alignment		97.0	53	PDB header: ribosome Chain: A: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: nmr structure of dimeric n-terminal domain of ribosomal2 protein l7 from e.coli
17	c1zawU_	 Alignment		97.0	50	PDB header: structural protein Chain: U: PDB Molecule: 50s ribosomal protein l10-l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form a
18	c1zawW_	 Alignment		97.0	50	PDB header: structural protein Chain: W: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form a
19	c1zavW_	 Alignment		97.0	50	PDB header: structural protein Chain: W: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p21
20	c1zavU_	 Alignment		97.0	50	PDB header: structural protein Chain: U: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p21
21	c1zaxU_	 Alignment	not modelled	97.0	50	PDB header: structural protein Chain: U: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form b
22	d1zavu1	 Alignment	not modelled	97.0	50	Fold: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Superfamily: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Family: Ribosomal protein L7/12, oligomerisation (N-terminal) domain
23	c1zaxW_	 Alignment	not modelled	97.0	50	PDB header: structural protein Chain: W: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form b
24	c1zaxV_	 Alignment	not modelled	97.0	50	PDB header: structural protein Chain: V: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form b
25	c1zavV_	 Alignment	not modelled	96.9	50	PDB header: structural protein Chain: V: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p21
26	c1zawV_	 Alignment	not modelled	96.9	50	PDB header: structural protein Chain: V: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form a
27	c1zaxZ_	 Alignment	not modelled	96.8	50	PDB header: structural protein Chain: Z: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form b
28	c1zavY_	 Alignment	not modelled	96.3	48	PDB header: structural protein Chain: Y: PDB Molecule: 50s ribosomal protein l7/l12;

						PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p21
29	c1zaxX_	Alignment	not modelled	96.3	48	PDB header: structural protein Chain: X: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form b
30	c1zavX_	Alignment	not modelled	96.3	48	PDB header: structural protein Chain: X: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p21
31	c1zaxY_	Alignment	not modelled	96.3	48	PDB header: structural protein Chain: Y: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form b
32	c1zawX_	Alignment	not modelled	96.1	48	PDB header: structural protein Chain: X: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form a
33	c1zawY_	Alignment	not modelled	96.1	48	PDB header: structural protein Chain: Y: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form a
34	c1zavZ_	Alignment	not modelled	94.0	46	PDB header: structural protein Chain: Z: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p21
35	dlzavz1	Alignment	not modelled	94.0	46	Fold: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Superfamily: Ribosomal protein L7/12, oligomerisation (N-terminal) domain Family: Ribosomal protein L7/12, oligomerisation (N-terminal) domain
36	c1zawZ_	Alignment	not modelled	93.8	46	PDB header: structural protein Chain: Z: PDB Molecule: 50s ribosomal protein l7/l12; PDBTitle: ribosomal protein l10-l12(ntd) complex, space group p212121,2 form a
37	dlaipc1	Alignment	not modelled	77.3	37	Fold: RuvA C-terminal domain-like Superfamily: UBA-like Family: TS-N domain
38	c1aipG_	Alignment	not modelled	68.3	37	PDB header: complex of two elongation factors Chain: G: PDB Molecule: elongation factor ts; PDBTitle: ef-tu ef-ts complex from thermus thermophilus
39	dllefub3	Alignment	not modelled	66.1	36	Fold: RuvA C-terminal domain-like Superfamily: UBA-like Family: TS-N domain
40	dlxb2b1	Alignment	not modelled	60.7	12	Fold: RuvA C-terminal domain-like Superfamily: UBA-like Family: TS-N domain
41	d2cp9a1	Alignment	not modelled	56.5	14	Fold: RuvA C-terminal domain-like Superfamily: UBA-like Family: TS-N domain
42	c1xb2B_	Alignment	not modelled	53.9	13	PDB header: translation Chain: B: PDB Molecule: elongation factor ts, mitochondrial; PDBTitle: crystal structure of bos taurus mitochondrial elongation2 factor tu/ts complex
43	c1efuB_	Alignment	not modelled	43.2	29	PDB header: complex (two elongation factors) Chain: B: PDB Molecule: elongation factor ts; PDBTitle: elongation factor complex ef-tu/ef-ts from escherichia coli
44	c3mmpC_	Alignment	not modelled	30.1	32	PDB header: transferase Chain: C: PDB Molecule: elongation factor tu 2, elongation factor ts; PDBTitle: structure of the qb replicase, an rna-dependent rna polymerase2 consisting of viral and host proteins
45	dlmula_	Alignment	not modelled	25.2	23	Fold: IHF-like DNA-binding proteins Superfamily: IHF-like DNA-binding proteins Family: Prokaryotic DNA-bending protein
46	c2iifA_	Alignment	not modelled	24.9	35	PDB header: recombination/dna Chain: A: PDB Molecule: integration host factor; PDBTitle: single chain integration host factor mutant protein (scihf2-2 k45ae) in complex with dna
47	c4a1cK_	Alignment	not modelled	24.7	19	PDB header: ribosome Chain: K: PDB Molecule: 60s ribosomal protein l27a; PDBTitle: t.thermophila 60s ribosomal subunit in complex with2 initiation factor 6. this file contains 5s rrna,3 5.8s rrna and proteins of molecule 4.
48	c2jmlA_	Alignment	not modelled	23.1	22	PDB header: transcription Chain: A: PDB Molecule: dna binding domain/transcriptional regulator; PDBTitle: solution structure of the n-terminal domain of cara repressor
49	dlvqol1	Alignment	not modelled	18.6	44	Fold: Ribosomal proteins L15p and L18e Superfamily: Ribosomal proteins L15p and L18e Family: Ribosomal proteins L15p and L18e
50	dlin0a2	Alignment	not modelled	17.0	20	Fold: Ferredoxin-like Superfamily: YajQ-like Family: YajQ-like
51	c2zkr1_	Alignment	not modelled	14.8	25	PDB header: ribosomal protein/rna Chain: L: PDB Molecule: rna expansion segment es20; PDBTitle: structure of a mammalian ribosomal 60s subunit within an 80s complex2 obtained by docking homology models of the rna and proteins into an3 8.7 a cryo-em map
52	dlp71a_	Alignment	not modelled	14.5	28	Fold: IHF-like DNA-binding proteins Superfamily: IHF-like DNA-binding proteins Family: Prokaryotic DNA-bending protein
53	c2dt5A_	Alignment	not modelled	13.5	19	PDB header: dna binding protein Chain: A: PDB Molecule: at-rich dna-binding protein; PDBTitle: crystal structure of ttha1657 (at-rich dna-binding protein)

						from2 thermus thermophilus hb8
54	d2axtu1	Alignment	not modelled	11.9	30	Fold: SAM domain-like Superfamily: PsbU/PolX domain-like Family: PsbU-like
55	d2j01p1	Alignment	not modelled	10.8	25	Fold: Ribosomal proteins L15p and L18e Superfamily: Ribosomal proteins L15p and L18e Family: Ribosomal proteins L15p and L18e
56	d2zjri1	Alignment	not modelled	10.4	25	Fold: Ribosomal proteins L15p and L18e Superfamily: Ribosomal proteins L15p and L18e Family: Ribosomal proteins L15p and L18e
57	c3izct	Alignment	not modelled	10.2	25	PDB header: ribosome Chain: T: PDB Molecule: 60s ribosomal protein rpl19 (I19e); PDBTitle: localization of the large subunit ribosomal proteins into a 6.1 a2 cryo-em map of saccharomyces cerevisiae translating 80s ribosome
58	d1b8za	Alignment	not modelled	10.0	27	Fold: IHF-like DNA-binding proteins Superfamily: IHF-like DNA-binding proteins Family: Prokaryotic DNA-bending protein
59	d1spbp	Alignment	not modelled	9.9	27	Fold: Ferredoxin-like Superfamily: Protease propeptides/inhibitors Family: Subtilase propeptides/inhibitors
60	c2l9fa	Alignment	not modelled	9.8	18	PDB header: transferase Chain: A: PDB Molecule: cale8; PDBTitle: nmr solution structure of meacp
61	clin0B	Alignment	not modelled	9.2	20	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: yajq protein; PDBTitle: yajq protein (hi1034)
62	d1v5b1	Alignment	not modelled	8.8	16	Fold: Ferredoxin-like Superfamily: Protease propeptides/inhibitors Family: Subtilase propeptides/inhibitors
63	c2jw5A	Alignment	not modelled	8.6	20	PDB header: protein binding Chain: A: PDB Molecule: dna polymerase lambda; PDBTitle: polymerase lambda brct domain
64	d1huua	Alignment	not modelled	8.4	43	Fold: IHF-like DNA-binding proteins Superfamily: IHF-like DNA-binding proteins Family: Prokaryotic DNA-bending protein
65	d1y7ta2	Alignment	not modelled	7.7	17	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
66	d1szpa1	Alignment	not modelled	7.6	21	Fold: SAM domain-like Superfamily: Rad51 N-terminal domain-like Family: DNA repair protein Rad51, N-terminal domain
67	c3c4iA	Alignment	not modelled	7.4	18	PDB header: dna binding protein Chain: A: PDB Molecule: dna-binding protein hu homolog; PDBTitle: crystal structure analysis of n terminal region containing the2 dimerization domain and dna binding domain of hu protein(histone like3 protein-dna binding) from mycobacterium tuberculosis [h37rv]
68	c3iz5t	Alignment	not modelled	6.8	31	PDB header: ribosome Chain: T: PDB Molecule: 60s ribosomal protein l19 (I19e); PDBTitle: localization of the large subunit ribosomal proteins into a 5.5 a2 cryo-em map of triticum aestivum translating 80s ribosome
69	d1lghb	Alignment	not modelled	6.5	21	Fold: Light-harvesting complex subunits Superfamily: Light-harvesting complex subunits Family: Light-harvesting complex subunits
70	d2o8ra3	Alignment	not modelled	6.4	21	Fold: Phospholipase D/nuclease Superfamily: Phospholipase D/nuclease Family: Polyphosphate kinase C-terminal domain
71	d2okga1	Alignment	not modelled	6.3	21	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: SorC sugar-binding domain-like
72	c2fvfa	Alignment	not modelled	5.7	33	PDB header: biosynthetic protein Chain: A: PDB Molecule: acyl carrier protein; PDBTitle: structure of 10:0-acyl (protein with docked fatty acid)
73	d1scjb	Alignment	not modelled	5.7	23	Fold: Ferredoxin-like Superfamily: Protease propeptides/inhibitors Family: Subtilase propeptides/inhibitors
74	d1iqoa	Alignment	not modelled	5.7	36	Fold: Hypothetical protein MTH1880 Superfamily: Hypothetical protein MTH1880 Family: Hypothetical protein MTH1880
75	d1wh4a	Alignment	not modelled	5.6	7	Fold: DEATH domain Superfamily: DEATH domain Family: DEATH domain, DD
76	c3a1yf	Alignment	not modelled	5.5	40	PDB header: ribosomal protein Chain: F: PDB Molecule: 50s ribosomal protein p1 (I12p); PDBTitle: the structure of protein complex
77	c2lbfA	Alignment	not modelled	5.4	25	PDB header: ribosomal protein Chain: A: PDB Molecule: 60s acidic ribosomal protein p1; PDBTitle: solution structure of the dimerization domain of human ribosomal2 protein p1/p2 heterodimer
78	d2paga1	Alignment	not modelled	5.3	30	Fold: SMI1/KNR4-like Superfamily: SMI1/KNR4-like Family: SMI1/KNR4-like
79	d1e0ea	Alignment	not modelled	5.3	17	Fold: DNA/RNA-binding 3-helical bundle Superfamily: N-terminal Zn binding domain of HIV integrase Family: N-terminal Zn binding domain of HIV integrase
80	c2d67A	Alignment	not modelled	5.3	22	PDB header: transcription regulator/dna Chain: A: PDB Molecule: multidrug-efflux transporter 1 regulator;

80	C9U2A	Alignment	not modelled	5.3	44	PDBTitle: crystal structure of r275e mutant of bmrr bound to dna and rhodamine
81	dlnxa	Alignment	not modelled	5.3	32	Fold: Hypothetical protein MTH393 Superfamily: Hypothetical protein MTH393 Family: Hypothetical protein MTH393