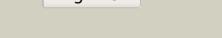
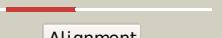


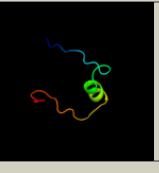
Phyre²

Email	I.a.kelley@imperial.ac.uk
Description	P75726
Date	Thu Jan 5 12:13:30 GMT 2012
Unique Job ID	75fb2f26ad619038

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1xr4B_	Alignment		100.0	72	PDB header: hydrolase/transferase Chain: B; PDB Molecule: putative citrate lyase alpha chain/citrate-acp transferase; PDBTitle: x-ray crystal structure of putative citrate lyase alpha chain/citrate-2 acp transferase [salmonella typhimurium]
2	c2hj0A_	Alignment		100.0	55	PDB header: lyase Chain: A; PDB Molecule: putative citrate lyase, alfa subunit; PDBTitle: crystal structure of the putative alfa subunit of citrate lyase in2 complex with citrate from streptococcus mutans, northeast structural3 genomics target smr12 (casp target).
3	c3gk7A_	Alignment		100.0	21	PDB header: transferase Chain: A; PDB Molecule: 4-hydroxybutyrate coa-transferase; PDBTitle: crystal structure of 4-hydroxybutyrate coa-transferase from2 clostridium aminobutyricum
4	c2oasA_	Alignment		100.0	20	PDB header: transferase Chain: A; PDB Molecule: 4-hydroxybutyrate coenzyme a transferase; PDBTitle: crystal structure of 4-hydroxybutyrate coenzyme a transferase (atoa)2 in complex with coa from shewanella oneidensis, northeast structural3 genomics target sor119.
5	c2g39A_	Alignment		100.0	20	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: acetyl-coa hydrolase; PDBTitle: crystal structure of coenzyme a transferase from pseudomonas2 aeruginosa
6	c2nnvF_	Alignment		100.0	18	PDB header: hydrolase Chain: F; PDB Molecule: acetyl-coa hydrolase/transferase family protein; PDBTitle: crystal structure of the putative acetyl-coa hydrolase/transferase2 pg1013 from porphyromonas gingivalis, northeast structural genomics3 target pgr16.
7	c3eh7A_	Alignment		100.0	24	PDB header: transferase Chain: A; PDB Molecule: 4-hydroxybutyrate coa-transferase; PDBTitle: the structure of a putative 4-hydroxybutyrate coa-transferase from2 porphyromonas gingivalis w83
8	d1xr4a2	Alignment		100.0	72	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase alpha subunit-like
9	c3d3uA_	Alignment		100.0	26	PDB header: transferase Chain: A; PDB Molecule: 4-hydroxybutyrate coa-transferase; PDBTitle: crystal structure of 4-hydroxybutyrate coa-transferase (abft-2) from2 porphyromonas gingivalis. northeast structural genomics consortium3 target pgr26
10	d1xr4a1	Alignment		100.0	70	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase alpha subunit-like
11	c2ahvC_	Alignment		100.0	18	PDB header: transferase Chain: C; PDB Molecule: putative enzyme ydif; PDBTitle: crystal structure of acyl-coa transferase from e. coli o157:h7 (ydif)-2 thioester complex with coa-1

12	c1ooyA			100.0	18	PDB header: transferase Chain: A; PDB Molecule: succinyl-coa:3-ketoacid-coenzyme a transferase, PDBTitle: succinyl-coa:3-ketoacid coa transferase from pig heart
13	d2g39a2			100.0	19	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase alpha subunit-like
14	c3rrlC			100.0	24	PDB header: transferase Chain: C; PDB Molecule: succinyl-coa:3-ketoacid-coenzyme a transferase subunit a; PDBTitle: complex structure of 3-oxoadipate coa-transferase subunit a and b from2 helicobacter pylori 26695
15	c3cdkA			100.0	20	PDB header: transferase Chain: A; PDB Molecule: succinyl-coa:3-ketoacid-coenzyme a transferase PDBTitle: crystal structure of the co-expressed succinyl-coa transferase a and b complex from bacillus subtilis
16	d1ooya1			100.0	15	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase beta subunit-like
17	d1ooya2			100.0	27	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase alpha subunit-like
18	d2ahua2			100.0	17	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase alpha subunit-like
19	c3cdkD			100.0	15	PDB header: transferase Chain: D; PDB Molecule: succinyl-coa:3-ketoacid-coenzyme a transferase PDBTitle: crystal structure of the co-expressed succinyl-coa2 transferase a and b complex from bacillus subtilis
20	d1k6da			100.0	23	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase alpha subunit-like
21	d1poia		not modelled	100.0	20	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase alpha subunit-like
22	d2g39a1		not modelled	99.9	20	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase alpha subunit-like
23	d2ahua1		not modelled	99.9	20	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase beta subunit-like
24	d1poib		not modelled	99.9	24	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase beta subunit-like
25	c1m0sA		not modelled	97.7	15	PDB header: isomerase Chain: A; PDB Molecule: ribose-5-phosphate isomerase a; PDBTitle: northeast structural genomics consortium (nsgc id ir21)
26	c1lk5C		not modelled	97.6	21	PDB header: isomerase Chain: C; PDB Molecule: d-ribose-5-phosphate isomerase; PDBTitle: structure of the d-ribose-5-phosphate isomerase from2 pyrococcus horikoshii
27	c3kwmC		not modelled	97.5	23	PDB header: isomerase Chain: C; PDB Molecule: ribose-5-phosphate isomerase a; PDBTitle: crystal structure of ribose-5-isomerase a
28	c2f8mB		not modelled	97.5	18	PDB header: isomerase Chain: B; PDB Molecule: ribose 5-phosphate isomerase; PDBTitle: ribose 5-phosphate isomerase from plasmodium falciparum
29	d1m0sa1		not modelled	97.5	15	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like

						Family: D-ribose-5-phosphate isomerase (RpiA), catalytic domain
30	c1lkzB_	Alignment	not modelled	97.4	19	PDB header: isomerase Chain: B; PDB Molecule: ribose 5-phosphate isomerase a; PDBTitle: crystal structure of d-ribose-5-phosphate isomerase (rpiA)2 from escherichia coli.
31	c3l7oB_	Alignment	not modelled	97.3	18	PDB header: isomerase Chain: B; PDB Molecule: ribose-5-phosphate isomerase a; PDBTitle: crystal structure of ribose-5-phosphate isomerase a from streptococcus2 mutans ua159
32	c1uj6A_	Alignment	not modelled	97.0	21	PDB header: isomerase Chain: A; PDB Molecule: ribose 5-phosphate isomerase; PDBTitle: crystal structure of thermus thermophilus ribose-5-phosphate isomerase2 complexed with arabinose-5-phosphate
33	c3hheA_	Alignment	not modelled	97.0	15	PDB header: isomerase Chain: A; PDB Molecule: ribose-5-phosphate isomerase a; PDBTitle: crystal structure of ribose-5-phosphate isomerase a from bartonella2 henselae
34	d1uj4a1	Alignment	not modelled	96.7	21	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: D-ribose-5-phosphate isomerase (RpiA), catalytic domain
35	d1lk5a1	Alignment	not modelled	96.2	22	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: D-ribose-5-phosphate isomerase (RpiA), catalytic domain
36	c3u7jA_	Alignment	not modelled	95.6	21	PDB header: isomerase Chain: A; PDB Molecule: ribose-5-phosphate isomerase a; PDBTitle: crystal structure of ribose-5-phosphate isomerase a from burkholderia2 thailandensis
37	c2pjmA_	Alignment	not modelled	95.3	15	PDB header: isomerase Chain: A; PDB Molecule: ribose-5-phosphate isomerase a; PDBTitle: structure of ribose 5-phosphate isomerase a from2 methanocaldococcus jannaschii
38	c3ecsD_	Alignment	not modelled	88.9	17	PDB header: translation Chain: D; PDB Molecule: translation initiation factor eif-2b subunit PDBTitle: crystal structure of human eif2b alpha
39	d1vb5a_	Alignment	not modelled	86.3	18	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: IF2B-like
40	c3a11D_	Alignment	not modelled	83.3	15	PDB header: isomerase Chain: D; PDB Molecule: translation initiation factor eif-2b, delta PDBTitle: crystal structure of ribose-1,5-bisphosphate isomerase from2 thermococcus kodakaraensis kod1
41	c1xtzA_	Alignment	not modelled	80.2	19	PDB header: isomerase Chain: A; PDB Molecule: ribose-5-phosphate isomerase; PDBTitle: crystal structure of the s. cerevisiae d-ribose-5-phosphate isomerase:2 comparison with the archeal and bacterial enzymes
42	c2yvkA_	Alignment	not modelled	78.5	17	PDB header: isomerase Chain: A; PDB Molecule: methylthioribose-1-phosphate isomerase; PDBTitle: crystal structure of 5-methylthioribose 1-phosphate2 isomerase product complex from bacillus subtilis
43	d1t9ka_	Alignment	not modelled	77.5	15	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: IF2B-like
44	c3e4fB_	Alignment	not modelled	75.2	29	PDB header: transferase Chain: B; PDB Molecule: aminoglycoside n3-acetyltransferase; PDBTitle: crystal structure of ba2930- a putative aminoglycoside n3-2 acetyltransferase from bacillus anthracis
45	d2nyga1	Alignment	not modelled	69.9	33	Fold: TTHA0583/YokD-like Superfamily: TTHA0583/YokD-like Family: Aminoglycoside 3-N-acetyltransferase-like
46	c3smaD_	Alignment	not modelled	66.8	21	PDB header: transferase Chain: D; PDB Molecule: frbf; PDBTitle: a new n-acetyltransferase fold in the structure and mechanism of the2 phosphonate biosynthetic enzyme frbf
47	d1o8bb1	Alignment	not modelled	64.4	13	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: D-ribose-5-phosphate isomerase (RpiA), catalytic domain
48	c2ipxA_	Alignment		56.0	24	PDB header: transferase Chain: A; PDB Molecule: rrna 2'-o-methyltransferase fibrillarin; PDBTitle: human fibrillarin
49	d1t5oa_	Alignment	not modelled	50.7	16	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: IF2B-like
50	c1w2wJ_	Alignment	not modelled	36.8	23	PDB header: isomerase Chain: J; PDB Molecule: 5-methylthioribose-1-phosphate isomerase; PDBTitle: crystal structure of yeast ypr118w, a methylthioribose-1-2 phosphate isomerase related to regulatory eif2b subunits
51	d1udxa3	Alignment	not modelled	33.1	35	Fold: Obg GTP-binding protein C-terminal domain Superfamily: Obg GTP-binding protein C-terminal domain Family: Obg GTP-binding protein C-terminal domain
52	d1g8sa_	Alignment	not modelled	29.2	12	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: Fibrillarin homologue
53	d1g8aa_	Alignment	not modelled	28.3	20	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: Fibrillarin homologue
54	c3mrxF	Alignment	not modelled	28.0	7	PDB header: oxidoreductase Chain: E; PDB Molecule: hydrogenase (nife) small subunit hyda;

54	c09y1L	Alignment	not modelled	28.0	/	PDBTitle: crystal structure of [nife] hydrogenase from <i>allochromatium vinosum</i> in2 its ni-a state
55	d2a0ua1	Alignment	not modelled	26.1	13	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: IF2B-like
56	d1vmha	Alignment	not modelled	25.6	36	Fold: YjbQ-like Superfamily: YjbQ-like Family: YjbQ-like
57	c2q24A	Alignment	not modelled	24.8	16	PDB header: transcription Chain: A: PDB Molecule: putative tetr family transcriptional regulator; PDBTitle: crystal structure of tetr transcriptional regulator sco0520 from2 streptomyces coelicolor
58	c3id5F	Alignment	not modelled	24.6	18	PDB header: transferase/ribosomal protein/rna Chain: F: PDB Molecule: fibrillarin-like rrna/trna 2'-o-methyltransferase; PDBTitle: crystal structure of sulfolobus solfataricus c/d rnp assembled with2 nop5, fibrillarin, l7ae and a split half c/d rna
59	c3rgwS	Alignment	not modelled	24.3	9	PDB header: oxidoreductase/oxidoreductase Chain: S: PDB Molecule: membrane-bound hydrogenase (nife) small subunit hoxk; PDBTitle: crystal structure at 1.5 a resolution of an h2-reduced, o2-tolerant2 hydrogenase from <i>ralstonia eutropha</i> unmasks a novel iron-sulfur3 cluster
60	d1x87a	Alignment	not modelled	23.4	21	Fold: Urocanase Superfamily: Urocanase Family: Urocanase
61	d1e8oa	Alignment	not modelled	23.2	13	Fold: Signal recognition particle alu RNA binding heterodimer, SRP9/14 Superfamily: Signal recognition particle alu RNA binding heterodimer, SRP9/14 Family: Signal recognition particle alu RNA binding heterodimer, SRP9/14
62	c2wpnA	Alignment	not modelled	21.9	12	PDB header: oxidoreductase Chain: A: PDB Molecule: periplasmic [nifese] hydrogenase, small subunit; PDBTitle: structure of the oxidised, as-isolated nifese hydrogenase2 from <i>d. vulgaris</i> hildenborough
63	d1vmfa	Alignment	not modelled	21.7	20	Fold: YjbQ-like Superfamily: YjbQ-like Family: YjbQ-like
64	c2qgdG	Alignment	not modelled	20.8	20	PDB header: lyase Chain: G: PDB Molecule: pyruvoyl-dependent arginine decarboxylase (ec PDBTitle: n47a mutant of pyruvoyl-dependent arginine decarboxylase2 from <i>methanococcus jannashii</i>
65	c2p6hB	Alignment	not modelled	20.0	23	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hypothetical protein; PDBTitle: crystal structure of hypothetical protein ape1520 from <i>aeropyrum2 pernix</i> k1
66	d1nt2a	Alignment	not modelled	19.8	24	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: Fibrillarin homologue
67	d1prya	Alignment	not modelled	19.7	18	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: Fibrillarin homologue
68	d1v7ba1	Alignment	not modelled	17.5	12	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Tetracyclin repressor-like, N-terminal domain
69	c2fknC	Alignment	not modelled	17.3	21	PDB header: lyase Chain: C: PDB Molecule: urocanate hydratase; PDBTitle: crystal structure of urocanase from <i>bacillus subtilis</i>
70	d2gena1	Alignment	not modelled	15.7	16	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Tetracyclin repressor-like, N-terminal domain
71	c3qbzA	Alignment	not modelled	15.5	20	PDB header: cell cycle Chain: A: PDB Molecule: ddk kinase regulatory subunit dbf4; PDBTitle: crystal structure of the rad53-recognition domain of <i>saccharomyces2 cerevisiae</i> dbf4
72	d3c07a1	Alignment	not modelled	15.5	19	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Tetracyclin repressor-like, N-terminal domain
73	d1ni9a	Alignment	not modelled	15.4	13	Fold: Carbohydrate phosphatase Superfamily: Carbohydrate phosphatase Family: GlpX-like bacterial fructose-1,6-bisphosphatase
74	d1t33a1	Alignment	not modelled	15.3	14	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Tetracyclin repressor-like, N-terminal domain
75	c3bnnD	Alignment	not modelled	14.3	12	PDB header: unknown function Chain: D: PDB Molecule: cj0977; PDBTitle: crystal structure of cj0977, a sigma28-regulated virulence protein2 from <i>campylobacter jejuni</i> .
76	d2o7ta1	Alignment	not modelled	14.2	8	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Tetracyclin repressor-like, N-terminal domain
77	d1vi0a1	Alignment	not modelled	13.4	11	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Tetracyclin repressor-like, N-terminal domain
78	d2vkeal	Alignment	not modelled	13.1	6	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Tetracyclin repressor-like, N-terminal domain
						Fold: YjbQ-like

79	d1vpha_	Alignment	not modelled	13.0	18	Superfamily: YjbQ-like Family: YjbQ-like
80	c3jsjC_	Alignment	not modelled	12.9	20	PDB header: transcription Chain: C: PDB Molecule: putative tetr-family transcriptional regulator; PDBTitle: crystal structure of a putative tetr-transcriptional regulator2 (sav143) from streptomyces avermitilis ma-4680 at 2.10 a resolution
81	c2p6cB_	Alignment	not modelled	12.9	14	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: aq_2013 protein; PDBTitle: crystal structure of hypothetical protein aq_2013 from aquifex2 aeolicus vf5.
82	c1h2aS_	Alignment	not modelled	12.3	13	PDB header: oxidoreductase Chain: S: PDB Molecule: hydrogenase; PDBTitle: single crystals of hydrogenase from desulfovibrio vulgaris
83	d1wuis1	Alignment	not modelled	12.3	13	Fold: HydA/Nqo6-like Superfamily: HydA/Nqo6-like Family: Nickel-iron hydrogenase, small subunit
84	c1k5hB_	Alignment	not modelled	12.2	28	PDB header: oxidoreductase Chain: B: PDB Molecule: 1-deoxy-d-xylulose-5-phosphate reductoisomerase; PDBTitle: 1-deoxy-d-xylulose-5-phosphate reductoisomerase
85	d1duvg2	Alignment	not modelled	12.1	24	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
86	d1i8fa_	Alignment	not modelled	12.0	21	Fold: Sm-like fold Superfamily: Sm-like ribonucleoproteins Family: Sm motif of small nuclear ribonucleoproteins, SNRNP
87	d1914a1	Alignment	not modelled	12.0	13	Fold: Signal recognition particle alu RNA binding heterodimer, SRP9/14 Superfamily: Signal recognition particle alu RNA binding heterodimer, SRP9/14 Family: Signal recognition particle alu RNA binding heterodimer, SRP9/14
88	c2d6yA_	Alignment	not modelled	11.7	11	PDB header: gene regulation Chain: A: PDB Molecule: putative tetr family regulatory protein; PDBTitle: crystal structure of transcriptional factor sco4008 from streptomyces2 coelicolor a3(2)
89	c2w48D_	Alignment	not modelled	11.6	14	PDB header: transcription Chain: D: PDB Molecule: sorbitol operon regulator; PDBTitle: crystal structure of the full-length sorbitol operon2 regulator sorc from klebsiella pneumoniae
90	c1vi0B_	Alignment	not modelled	11.5	13	PDB header: transcription Chain: B: PDB Molecule: transcriptional regulator; PDBTitle: crystal structure of a transcriptional regulator
91	d2atca2	Alignment	not modelled	11.2	12	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
92	d3efba1	Alignment	not modelled	11.0	15	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: SorC sugar-binding domain-like
93	d1vmja_	Alignment	not modelled	10.8	32	Fold: YjbQ-like Superfamily: YjbQ-like Family: YjbQ-like
94	c2jvfA_	Alignment	not modelled	10.7	16	PDB header: de novo protein Chain: A: PDB Molecule: de novo protein m7; PDBTitle: solution structure of m7, a computationally-designed2 artificial protein
95	d2nvma1	Alignment	not modelled	10.5	37	Fold: Xisl-like Superfamily: Xisl-like Family: Xisl-like
96	d2nvla1	Alignment	not modelled	10.5	47	Fold: Xisl-like Superfamily: Xisl-like Family: Xisl-like
97	d1dxha2	Alignment	not modelled	10.4	16	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
98	c3e0vB_	Alignment	not modelled	10.3	21	PDB header: transferase Chain: B: PDB Molecule: pyruvate kinase; PDBTitle: crystal structure of pyruvate kinase from leishmania mexicana in2 complex with sulphate ions
99	d1uwka_	Alignment	not modelled	10.2	19	Fold: Urocanase Superfamily: Urocanase Family: Urocanase