

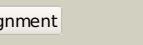
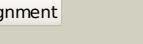
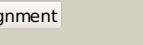
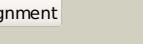
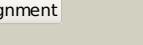
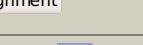
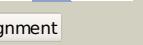
Phyre²

Email	i.a.kelley@imperial.ac.uk
Description	P0AC33
Date	Thu Jan 5 11:17:04 GMT 2012
Unique Job ID	a93865b689503ba0

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d2isba1			100.0	29	Fold: The "swivelling" beta/beta/alpha domain Superfamily: FumA C-terminal domain-like Family: FumA C-terminal domain-like
2	c2qv6D_			87.6	15	PDB header: hydrolase Chain: D: PDB Molecule: gtp cyclohydrolase iii; PDBTitle: gtp cyclohydrolase iii from m. jannaschii (mj0145)2 complexed with gtp and metal ions
3	c4a1oB_			63.6	26	PDB header: transferase-hydrolase Chain: B: PDB Molecule: bifunctional purine biosynthesis protein purh; PDBTitle: crystal structure of mycobacterium tuberculosis purh complexed with2 aicar and a novel nucleotide cfair, at 2.48 a resolution.
4	d1pkxa2			61.2	23	Fold: Cytidine deaminase-like Superfamily: Cytidine deaminase-like Family: AICAR transformylase domain of bifunctional purine biosynthesis enzyme ATIC
5	c3p2oA_			59.8	20	PDB header: oxidoreductase, hydrolase Chain: A: PDB Molecule: bifunctional protein fold; PDBTitle: crystal structure of fold bifunctional protein from campylobacter2 jejuni
6	d1led7a_			58.6	18	Fold: WW domain-like Superfamily: Carbohydrate binding domain Family: Carbohydrate binding domain
7	c1zcZA_			57.7	21	PDB header: transferase/hydrolase Chain: A: PDB Molecule: bifunctional purine biosynthesis protein purh; PDBTitle: crystal structure of phosphoribosylaminoimidazolecarboxamide2 formyltransferase / imp cyclohydrolase (tm1249) from thermotoga3 maritima at 1.88 a resolution
8	c3I07B_			51.7	20	PDB header: oxidoreductase,hydrolase Chain: B: PDB Molecule: bifunctional protein fold; PDBTitle: methylenetetrahydrofolate dehydrogenase/methenyltetrahydrofolate2 cyclohydrolase, putative bifunctional protein fold from francisella3 tularensis.
9	c3fpnA_			51.7	20	PDB header: dna binding protein Chain: A: PDB Molecule: geobacillus stearothermophilus uvra interaction PDBTitle: crystal structure of uvra-uvrb interaction domains
10	c3p2oB_			45.7	21	PDB header: oxidoreductase, hydrolase Chain: B: PDB Molecule: bifunctional protein fold; PDBTitle: crystal structure of fold bifunctional protein from campylobacter2 jejuni
11	d1g8ma2			45.3	18	Fold: Cytidine deaminase-like Superfamily: Cytidine deaminase-like Family: AICAR transformylase domain of bifunctional purine biosynthesis enzyme ATIC

12	d12asa_			43.5	23	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
13	c1thzA_			43.3	18	PDB header: transferase, hydrolase Chain: A: PDB Molecule: bifunctional purine biosynthesis protein purh; PDBTitle: crystal structure of avian aicar transformylase in complex2 with a novel inhibitor identified by virtual ligand3 screening
14	c1k98A_			40.0	21	PDB header: transferase Chain: A: PDB Molecule: methionine synthase; PDBTitle: adomet complex of meth c-terminal fragment
15	d1yqeal			39.8	8	Fold: Phosphorylase/hydrolase-like Superfamily: AF0625-like Family: AF0625-like
16	c3p9zA_			39.6	24	PDB header: ligase Chain: A: PDB Molecule: uroporphyrinogen iii cosynthase (hemd); PDBTitle: crystal structure of uroporphyrinogen-iii synthetase from helicobacter2 pylori 26695
17	d1zcza2			38.5	21	Fold: Cytidine deaminase-like Superfamily: Cytidine deaminase-like Family: AICAR transformylase domain of bifunctional purine biosynthesis enzyme ATIC
18	d1ei5a2			36.8	25	Fold: Streptavidin-like Superfamily: D-aminopeptidase, middle and C-terminal domains Family: D-aminopeptidase, middle and C-terminal domains
19	c2vdcl			36.8	18	PDB header: oxidoreductase Chain: I: PDB Molecule: glutamate synthase [nadph] small chain; PDBTitle: the 9.5 a resolution structure of glutamate synthase from2 cryo-electron microscopy and its oligomerization behavior3 in solution: functional implications.
20	c2xmoB_			36.8	18	PDB header: hydrolase Chain: B: PDB Molecule: lmo2642 protein; PDBTitle: the crystal structure of lmo2642
21	c2c2xB_		not modelled	34.8	14	PDB header: oxidoreductase Chain: B: PDB Molecule: methylenetetrahydrofolate dehydrogenase- PDBTitle: three dimensional structure of bifunctional2 methylenetetrahydrofolate dehydrogenase-cyclohydrolase3 from mycobacterium tuberculosis
22	d1a4ia2		not modelled	34.8	16	Fold: Aminoacid dehydrogenase-like, N-terminal domain Superfamily: Aminoacid dehydrogenase-like, N-terminal domain Family: Tetrahydrofolate dehydrogenase/cyclohydrolase
23	d3bula2		not modelled	31.8	25	Fold: Flavodoxin-like Superfamily: Cobalamin (vitamin B12)-binding domain Family: Cobalamin (vitamin B12)-binding domain
24	c2gfqC_		not modelled	30.4	9	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: upf0204 protein ph0006; PDBTitle: structure of protein of unknown function ph0006 from pyrococcus2 horikoshii
25	c1jr2A_		not modelled	30.0	24	PDB header: lyase Chain: A: PDB Molecule: uroporphyrinogen-iii synthase; PDBTitle: structure of uroporphyrinogen iii synthase
26	d1jr2a_		not modelled	30.0	24	Fold: HemD-like Superfamily: HemD-like Family: HemD-like
27	c1a4iB_		not modelled	29.2	17	PDB header: oxidoreductase Chain: B: PDB Molecule: methylenetetrahydrofolate dehydrogenase / PDBTitle: human tetrahydrofolate dehydrogenase / cyclohydrolase
28	c2d49A_		not modelled	29.0	24	PDB header: hydrolase Chain: A: PDB Molecule: chitinase c; PDBTitle: solution structure of the chitin-binding domain of2 streptomyces griseus chitinase c

29	d1edza2		Alignment	not modelled	28.5	8	Fold: Aminoacid dehydrogenase-like, N-terminal domain Superfamily: Aminoacid dehydrogenase-like, N-terminal domain Family: Tetrahydrofolate dehydrogenase/cyclohydrolase
30	c3g3vA_		Alignment	not modelled	27.6	22	PDB header: transferase Chain: A: PDB Molecule: phosphoglycerate kinase; PDBTitle: crystal structure of phosphoglycerate kinase from campylobacter2 jejuni.
31	c3ibgF_		Alignment	not modelled	27.5	17	PDB header: hydrolase Chain: F: PDB Molecule: atpase, subunit of the get complex; PDBTitle: crystal structure of aspergillus fumigatus get3 with bound2 adp
32	d2gqba1		Alignment	not modelled	26.9	35	Fold: RPA2825-like Superfamily: RPA2825-like Family: RPA2825-like
33	d1sf8a_		Alignment	not modelled	26.0	23	Fold: HSP90 C-terminal domain Superfamily: HSP90 C-terminal domain Family: HSP90 C-terminal domain
34	d1b8aa1		Alignment	not modelled	25.9	6	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Anticodon-binding domain
35	d1aiwa_		Alignment	not modelled	25.8	7	Fold: WW domain-like Superfamily: Carbohydrate binding domain Family: Carbohydrate binding domain
36	d1o6aa_		Alignment	not modelled	25.8	15	Fold: Surface presentation of antigens (SPOA) Superfamily: Surface presentation of antigens (SPOA) Family: Surface presentation of antigens (SPOA)
37	d2gfqa1		Alignment	not modelled	23.8	9	Fold: Phosphorylase/hydrolase-like Superfamily: AF0625-like Family: AF0625-like
38	d1xmpa_		Alignment	not modelled	23.5	10	Fold: Flavodoxin-like Superfamily: N5-CAIR mutase (phosphoribosylaminoimidazole carboxylase, PurE) Family: N5-CAIR mutase (phosphoribosylaminoimidazole carboxylase, PurE)
39	d2piaa1		Alignment	not modelled	23.2	0	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Riboflavin synthase domain-like Family: Ferredoxin reductase FAD-binding domain-like
40	c3trhl_		Alignment	not modelled	22.6	14	PDB header: lyase Chain: I: PDB Molecule: phosphoribosylaminoimidazole carboxylase PDBTitle: structure of a phosphoribosylaminoimidazole carboxylase catalytic2 subunit (pure) from coxiella burnetii
41	c3cr8C_		Alignment	not modelled	22.5	30	PDB header: transferase Chain: C: PDB Molecule: sulfate adenyllyltranferase, adenyllylsulfate PDBTitle: hexameric aps kinase from thiobacillus denitrificans
42	d1goia1		Alignment	not modelled	22.0	18	Fold: WW domain-like Superfamily: Carbohydrate binding domain Family: Carbohydrate binding domain
43	d1stza2		Alignment	not modelled	21.5	6	Fold: Profilin-like Superfamily: GAF domain-like Family: HrcA C-terminal domain-like
44	c2iheA_		Alignment	not modelled	21.3	15	PDB header: dna binding protein Chain: A: PDB Molecule: single-stranded dna-binding protein; PDBTitle: crystal structure of wild-type single-stranded dna binding protein2 from thermus aquaticus
45	d1fnnda1		Alignment	not modelled	21.2	21	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Riboflavin synthase domain-like Family: Ferredoxin reductase FAD-binding domain-like
46	c4a5oB_		Alignment	not modelled	20.5	17	PDB header: oxidoreductase Chain: B: PDB Molecule: bifunctional protein fold; PDBTitle: crystal structure of pseudomonas aeruginosa n5, n10-2 methylenetetrahydrofolate dehydrogenase-cyclohydrolase (fold)
47	d1ni9a_		Alignment	not modelled	20.4	25	Fold: Carbohydrate phosphatase Superfamily: Carbohydrate phosphatase Family: GlpX-like bacterial fructose-1,6-bisphosphatase
48	d1whka_		Alignment	not modelled	20.0	17	Fold: SH3-like barrel Superfamily: Cap-Gly domain Family: Cap-Gly domain
49	c3o59X_		Alignment	not modelled	19.9	46	PDB header: transferase Chain: X: PDB Molecule: dna polymerase ii large subunit; PDBTitle: dna polymerase d large subunit dp2(1-300) from pyrococcus horikoshii
50	c3orsD_		Alignment	not modelled	19.8	18	PDB header: isomerase,biosynthetic protein Chain: D: PDB Molecule: n5-carboxyaminoimidazole ribonucleotide mutase; PDBTitle: crystal structure of n5-carboxyaminoimidazole ribonucleotide mutase2 from staphylococcus aureus
51	d1v58a1		Alignment	not modelled	19.7	11	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: DsbC/DsbG C-terminal domain-like
52	c3hjbA_		Alignment	not modelled	19.6	30	PDB header: isomerase Chain: A: PDB Molecule: glucose-6-phosphate isomerase; PDBTitle: 1.5 angstrom crystal structure of glucose-6-phosphate isomerase from vibrio cholerae.
53	d1vkza2		Alignment	not modelled	19.3	23	Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: BC N-terminal domain-like
54	d2cp6a1		Alignment	not modelled	19.3	15	Fold: SH3-like barrel Superfamily: Cap-Gly domain Family: Cap-Gly domain

55	d2oz4a1		Alignment	not modelled	19.2	29	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C2 set domains
56	d2eyqa1		Alignment	not modelled	18.9	6	Fold: SH3-like barrel Superfamily: CardD-like Family: Card-like
57	d2coza1		Alignment	not modelled	18.8	16	Fold: SH3-like barrel Superfamily: Cap-Gly domain Family: Cap-Gly domain
58	d1fyba1		Alignment	not modelled	18.5	13	Fold: Plant proteinase inhibitors Superfamily: Plant proteinase inhibitors Family: Plant proteinase inhibitors
59	c2o2cB_		Alignment	not modelled	17.9	25	PDB header: isomerase Chain: B: PDB Molecule: glucose-6-phosphate isomerase, glycosomal; PDBTitle: crystal structure of phosphoglucose isomerase from t. brucei2 containing glucose-6-phosphate in the active site
60	d1q50a_		Alignment	not modelled	17.9	30	Fold: SIS domain Superfamily: SIS domain Family: Phosphoglucose isomerase, PGI
61	c3c00B_		Alignment	not modelled	17.9	12	PDB header: membrane protein, protein transport Chain: B: PDB Molecule: escu; PDBTitle: crystal structural of the mutated g247t escu/spas c-terminal domain
62	c3t1iC_		Alignment	not modelled	17.8	26	PDB header: hydrolase Chain: C: PDB Molecule: double-strand break repair protein mre11a; PDBTitle: crystal structure of human mre11: understanding tumorigenic mutations
63	c1t10A_		Alignment	not modelled	17.8	30	PDB header: isomerase Chain: A: PDB Molecule: glucose-6-phosphate isomerase; PDBTitle: phosphoglucose isomerase from leishmania mexicana in complex with2 substrate d-fructose-6-phosphate
64	c3pr3B_		Alignment	not modelled	17.7	35	PDB header: isomerase Chain: B: PDB Molecule: glucose-6-phosphate isomerase; PDBTitle: crystal structure of plasmodium falciparum glucose-6-phosphate2 isomerase (pf14_0341) in complex with fructose-6-phosphate
65	c3nbuC_		Alignment	not modelled	17.6	30	PDB header: isomerase Chain: C: PDB Molecule: glucose-6-phosphate isomerase; PDBTitle: crystal structure of pgi glucosephosphate isomerase
66	c3lerA_		Alignment	not modelled	17.6	8	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from campylobacter jejuni subsp. jejuni nctc 11168
67	d2gc6a1		Alignment	not modelled	17.4	15	Fold: MurD-like peptide ligases, peptide-binding domain Superfamily: MurD-like peptide ligases, peptide-binding domain Family: Folylpolyglutamate synthetase, C-terminal domain
68	d2buna1		Alignment	not modelled	17.2	18	Fold: Ferrodoxin-like Superfamily: Acylphosphatase/BLUF domain-like Family: BLUF domain
69	d4sgbi_		Alignment	not modelled	17.2	19	Fold: Plant proteinase inhibitors Superfamily: Plant proteinase inhibitors Family: Plant proteinase inhibitors
70	d1yrxa1		Alignment	not modelled	17.1	18	Fold: Ferrodoxin-like Superfamily: Acylphosphatase/BLUF domain-like Family: BLUF domain
71	c3en2A_		Alignment	not modelled	17.1	20	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: probable primosomal replication protein n; PDBTitle: three-dimensional structure of the protein prib from2 ralstonia solanacearum at the resolution 2.3a. northeast3 structural genomics consortium target rsr213c.
72	c2crvA_		Alignment	not modelled	16.9	14	PDB header: translation Chain: A: PDB Molecule: translation initiation factor if-2; PDBTitle: solution structure of c-terminal domain of mitochondrial2 translational initiationfactor 2
73	c2jmbA_		Alignment	not modelled	16.8	24	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein atu4866; PDBTitle: solution structure of the protein atu4866 from agrobacterium2 tumefaciens
74	d1wlfa2		Alignment	not modelled	16.8	15	Fold: Double psi beta-barrel Superfamily: ADC-like Family: Cdc48 N-terminal domain-like
75	d1ylla_		Alignment	not modelled	16.8	31	Fold: Phosphotyrosine protein phosphatases I-like Superfamily: Phosphotyrosine protein phosphatases I Family: Low-molecular-weight phosphotyrosine protein phosphatases
76	c3fmxX_		Alignment	not modelled	16.6	22	PDB header: oxidoreductase Chain: X: PDB Molecule: tartrate dehydrogenase/decarboxylase; PDBTitle: crystal structure of tartrate dehydrogenase from pseudomonas2 putida complexed with nadh
77	d2cnnda1		Alignment	not modelled	16.6	25	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Riboflavin synthase domain-like Family: Ferredoxin reductase FAD-binding domain-like
78	d2byca1		Alignment	not modelled	16.4	8	Fold: Ferrodoxin-like Superfamily: Acylphosphatase/BLUF domain-like Family: BLUF domain
79	d1hm5a_		Alignment	not modelled	16.2	35	Fold: SIS domain Superfamily: SIS domain Family: Phosphoglucose isomerase, PGI PDB header: oxidoreductase Chain: B: PDB Molecule: putative c-1-tetrahydrofolate synthase,

80	c4a26B_	Alignment	not modelled	16.2	15	cytoplasmic; PDBTitle: the crystal structure of leishmania major n5,n10-2 methylenetetrahydrofolate dehydrogenase/cyclohydrolase
81	d1whha_	Alignment	not modelled	15.9	30	Fold: SH3-like barrel Superfamily: Cap-Gly domain Family: Cap-Gly domain
82	d2al3a1	Alignment	not modelled	15.9	13	Fold: beta-Grasp (ubiquitin-like) Superfamily: Ubiquitin-like Family: UBX domain
83	d1iata_	Alignment	not modelled	15.8	35	Fold: SIS domain Superfamily: SIS domain Family: Phosphoglucose isomerase, PGI
84	d1pjua1	Alignment	not modelled	15.8	20	Fold: Plant proteinase inhibitors Superfamily: Plant proteinase inhibitors Family: Plant proteinase inhibitors
85	d1gzda_	Alignment	not modelled	15.7	35	Fold: SIS domain Superfamily: SIS domain Family: Phosphoglucose isomerase, PGI
86	c1fyba_	Alignment	not modelled	15.6	17	PDB header: hydrolase inhibitor Chain: A: PDB Molecule: proteinase inhibitor; PDBTitle: solution structure of c1-t1, a two-domain proteinase2 inhibitor derived from the circular precursor protein na-3 propi from nicotiana alata
87	c3k1rA_	Alignment	not modelled	15.4	17	PDB header: structural protein Chain: A: PDB Molecule: harmonin; PDBTitle: structure of harmonin npdz1 in complex with the sambp2 sans
88	d1u0fa_	Alignment	not modelled	15.4	35	Fold: SIS domain Superfamily: SIS domain Family: Phosphoglucose isomerase, PGI
89	c3cyyA_	Alignment	not modelled	15.1	19	PDB header: peptide binding protein Chain: A: PDB Molecule: tight junction protein zo-1; PDBTitle: the crystal structure of zo-1 pdz2 in complex with the cx43 peptide
90	d1qx4a1	Alignment	not modelled	15.1	14	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Riboflavin synthase domain-like Family: Ferredoxin reductase FAD-binding domain-like
91	c2e4hA_	Alignment	not modelled	15.0	24	PDB header: structural protein Chain: A: PDB Molecule: restin; PDBTitle: solution structure of cytoskeletal protein in complex with2 tubulin tail
92	d1n0ua3	Alignment	not modelled	15.0	10	Fold: Ribosomal protein S5 domain 2-like Superfamily: Ribosomal protein S5 domain 2-like Family: Translational machinery components
93	c2wu8A_	Alignment	not modelled	14.8	30	PDB header: isomerase Chain: A: PDB Molecule: glucose-6-phosphate isomerase; PDBTitle: structural studies of phosphoglucose isomerase from mycobacterium tuberculosis h37rv
94	d1u11a_	Alignment	not modelled	14.7	19	Fold: Flavodoxin-like Superfamily: N5-CAIR mutase (phosphoribosylaminoimidazole carboxylase, PurE) Family: N5-CAIR mutase (phosphoribosylaminoimidazole carboxylase, PurE)
95	c2j1hA_	Alignment	not modelled	14.7	15	PDB header: protein transport Chain: A: PDB Molecule: yop proteins translocation protein u; PDBTitle: crystal structure of the cytoplasmic domain of yersinia2 pestis yscu n263a mutant
96	d2ix0a3	Alignment	not modelled	14.5	13	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Cold shock DNA-binding domain-like
97	c3ijfX_	Alignment	not modelled	14.3	22	PDB header: hydrolase Chain: X: PDB Molecule: cytidine deaminase; PDBTitle: crystal structure of cytidine deaminase from mycobacterium2 tuberculosis
98	d1sm4a1	Alignment	not modelled	14.2	14	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Riboflavin synthase domain-like Family: Ferredoxin reductase FAD-binding domain-like
99	d1krha1	Alignment	not modelled	14.1	21	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Riboflavin synthase domain-like Family: Ferredoxin reductase FAD-binding domain-like