

Phyre²

Email	I.a.kelley@imperial.ac.uk
Description	P76222
Date	Thu Jan 5 12:20:47 GMT 2012
Unique Job ID	f1b5275eaf6c8812

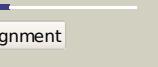
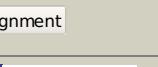
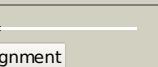
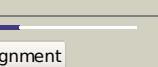
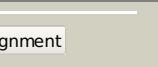
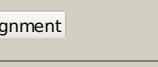
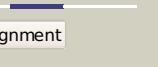
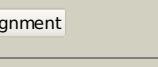
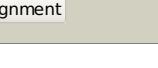
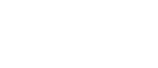
Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d2prra1	Alignment		100.0	19	Fold: AhpD-like Superfamily: AhpD-like Family: Atu0492-like
2	d2pfxa1	Alignment		100.0	15	Fold: AhpD-like Superfamily: AhpD-like Family: Atu0492-like
3	d2yoza1	Alignment		100.0	23	Fold: AhpD-like Superfamily: AhpD-like Family: Atu0492-like
4	c3c1IB_	Alignment		100.0	14	PDB header: oxidoreductase Chain: B: PDB Molecule: putative antioxidant defense protein mlr4105; PDBTitle: crystal structure of an antioxidant defense protein (mlr4105) from2 mesorhizobium loti maff303099 at 2.00 a resolution
5	c3lvvB_	Alignment		100.0	15	PDB header: lyase Chain: B: PDB Molecule: carboxymuconolactone decarboxylase family; PDBTitle: crystal structure of carboxymuconolactone decarboxylase2 family protein smu.961 from streptococcus mutans
6	d2o4da1	Alignment		100.0	23	Fold: AhpD-like Superfamily: AhpD-like Family: Atu0492-like
7	d2gmya1	Alignment		100.0	23	Fold: AhpD-like Superfamily: AhpD-like Family: Atu0492-like
8	d2ouwa1	Alignment		99.9	22	Fold: AhpD-like Superfamily: AhpD-like Family: TTHA0727-like
9	c2queA_	Alignment		99.6	13	PDB header: lyase Chain: A: PDB Molecule: putative carboxymuconolactone decarboxylase; PDBTitle: crystal structure of putative carboxymuconolactone decarboxylase2 (yp_555818.1) from burkholderia xenovorans lb400 at 1.65 a resolution
10	d2cwqa1	Alignment		99.4	18	Fold: AhpD-like Superfamily: AhpD-like Family: TTHA0727-like
11	d2q0ta1	Alignment		99.3	18	Fold: AhpD-like Superfamily: AhpD-like Family: AhpD

12	c1p8cD_			99.3	10	PDB header: structural genomics, unknown function Chain: D: PDB Molecule: conserved hypothetical protein; PDBTitle: crystal structure of tm1620 (apc4843) from thermotoga2 maritima
13	c3beyC_			99.3	16	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: conserved protein o27018; PDBTitle: crystal structure of the protein o27018 from methanobacterium2 thermoautotrophicum. northeast structural genomics consortium target3 tt217
14	d1vkeA_			99.2	10	Fold: AhpD-like Superfamily: AhpD-like Family: CMD-like
15	c3d7iB_			99.1	11	PDB header: lyase Chain: B: PDB Molecule: carboxymuconolactone decarboxylase family protein; PDBTitle: crystal structure of carboxymuconolactone decarboxylase family protein2 possibly involved in oxygen detoxification (1591455) from3 methanococcus jannaschii at 1.75 a resolution
16	d1vkEB_			98.9	10	Fold: AhpD-like Superfamily: AhpD-like Family: CMD-like
17	d1knca_			98.8	9	Fold: AhpD-like Superfamily: AhpD-like Family: AhpD
18	d2af7a1			97.6	17	Fold: AhpD-like Superfamily: AhpD-like Family: CMD-like
19	d1a9xa1			80.3	12	Fold: Carbamoyl phosphate synthetase, large subunit connection domain Superfamily: Carbamoyl phosphate synthetase, large subunit connection domain Family: Carbamoyl phosphate synthetase, large subunit connection domain
20	c3bjxB_			75.1	18	PDB header: hydrolase Chain: B: PDB Molecule: halocarboxylic acid dehalogenase dehi; PDBTitle: structure of a group i haloacid dehalogenase from2 pseudomonas putida strain pp3
21	d2p7vb1		not modelled	33.9	5	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Sigma3 and sigma4 domains of RNA polymerase sigma factors Family: Sigma4 domain
22	c3gk0H_		not modelled	26.9	19	PDB header: transferase Chain: H: PDB Molecule: pyridoxine 5'-phosphate synthase; PDBTitle: crystal structure of pyridoxal phosphate biosynthetic2 protein from burkholderia pseudomallei
23	d1m5wa_		not modelled	24.4	15	Fold: TIM beta/alpha-barrel Superfamily: Pyridoxine 5'-phosphate synthase Family: Pyridoxine 5'-phosphate synthase
24	c2k8sA_		not modelled	21.4	15	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin; PDBTitle: solution nmr structure of dimeric thioredoxin-like protein2 ne0084 from nitrosomonas europea: northeast structural3 genomics target net6
25	d1khda1		not modelled	18.8	12	Fold: Methionine synthase domain-like Superfamily: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain Family: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain
26	c2k9IA_		not modelled	18.6	13	PDB header: transcription Chain: A: PDB Molecule: rna polymerase sigma factor rpon; PDBTitle: structure of the core binding domain of sigma54
27	d1wgla_		not modelled	17.2	14	Fold: RuvA C-terminal domain-like Superfamily: UBA-like Family: CUE domain
28	c3l9vE_		not modelled	15.2	10	PDB header: oxidoreductase Chain: E: PDB Molecule: putative thiol-disulfide isomerase or thioredoxin;

					PDBTitle: crystal structure of salmonella enterica serovar typhimurium srga
29	c1t3ba	Alignment	not modelled	13.4	PDB header: isomerase Chain: A: PDB Molecule: thiol:disulfide interchange protein dsbc; PDBTitle: x-ray structure of dsbc from haemophilus influenzae
30	c3dwA	Alignment	not modelled	12.7	PDB header: oxidoreductase Chain: A: PDB Molecule: thiol:disulfide interchange protein dsba; PDBTitle: crystal structure of reduced dsba1 from neisseria2 meningitidis
31	c2k9mA	Alignment	not modelled	11.9	PDB header: transcription Chain: A: PDB Molecule: rna polymerase sigma factor rpon; PDBTitle: structure of the core binding domain of sigma54
32	d1v8ga1	Alignment	not modelled	11.8	Fold: Methionine synthase domain-like Superfamily: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain Family: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain
33	d2fug21	Alignment	not modelled	11.4	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: NQO2-like
34	d1t3ba1	Alignment	not modelled	11.4	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: DsbC/DsbG C-terminal domain-like
35	c3f4tA	Alignment	not modelled	11.3	PDB header: oxidoreductase Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of wolbachia pipiensis alpha-dsba1 c97a/c146a
36	c1jmtB	Alignment	not modelled	11.2	PDB header: rna binding protein Chain: B: PDB Molecule: splicing factor u2af 65 kda subunit; PDBTitle: x-ray structure of a core u2af65/u2af35 heterodimer
37	d1beda	Alignment	not modelled	10.9	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: DsbA-like
38	c2jvIA	Alignment	not modelled	10.5	PDB header: transcription Chain: A: PDB Molecule: trmbf1; PDBTitle: nmr structure of the c-terminal domain of mbf1 of trichoderma reesei
39	c2dhyA	Alignment	not modelled	10.4	PDB header: immune system Chain: A: PDB Molecule: cue domain-containing protein 1; PDBTitle: solution structure of the cue domain in the human cue2 domain containing protein 1 (cuedc1)
40	c3gmfA	Alignment	not modelled	10.3	PDB header: oxidoreductase Chain: A: PDB Molecule: protein-disulfide isomerase; PDBTitle: crystal structure of protein-disulfide isomerase from novosphingobium2 aromaticivorans
41	d1ddfa	Alignment	not modelled	10.2	Fold: DEATH domain Superfamily: DEATH domain Family: DEATH domain, DD
42	c1v57A	Alignment	not modelled	9.7	PDB header: isomerase Chain: A: PDB Molecule: thiol:disulfide interchange protein dsbg; PDBTitle: crystal structure of the disulfide bond isomerase dsbg
43	d1uoua1	Alignment	not modelled	9.6	Fold: Methionine synthase domain-like Superfamily: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain Family: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain
44	c2p0oA	Alignment	not modelled	9.5	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein duF871; PDBTitle: crystal structure of a conserved protein from locus ef_2437 in2 enterococcus faecalis with an unknown function
45	c1jzdA	Alignment	not modelled	9.4	PDB header: oxidoreductase Chain: A: PDB Molecule: thiol:disulfide interchange protein dsbc; PDBTitle: dsbc-dsbdalpha complex
46	d1eeja1	Alignment	not modelled	9.3	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: DsbC/DsbG C-terminal domain-like
47	c3bciA	Alignment	not modelled	9.2	PDB header: oxidoreductase Chain: A: PDB Molecule: disulfide bond protein a; PDBTitle: crystal structure of staphylococcus aureus dsba
48	c1hyuA	Alignment	not modelled	9.1	PDB header: oxidoreductase Chain: A: PDB Molecule: alkyl hydroperoxide reductase subunit f; PDBTitle: crystal structure of intact ahpf
49	d1u6pa	Alignment	not modelled	8.9	Fold: Retrovirus zinc finger-like domains Superfamily: Retrovirus zinc finger-like domains Family: Retrovirus zinc finger-like domains
50	c2yqfA	Alignment	not modelled	8.8	PDB header: protein binding Chain: A: PDB Molecule: ankyrin-1; PDBTitle: solution structure of the death domain of ankyrin-1
51	c1m6vE	Alignment	not modelled	8.7	PDB header: ligase Chain: E: PDB Molecule: carbamoyl phosphate synthetase large chain; PDBTitle: crystal structure of the g359f (small subunit) point mutant of 2 carbamoyl phosphate synthetase
52	d1luxda	Alignment	not modelled	8.6	Fold: lambda repressor-like DNA-binding domains Superfamily: lambda repressor-like DNA-binding domains Family: GalR/LacI-like bacterial regulator
53	d1dpua	Alignment	not modelled	8.6	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: C-terminal domain of RPA32
54	c1dpua	Alignment	not modelled	8.6	PDB header: dna binding protein Chain: A: PDB Molecule: replication protein a (rpa32) c-terminal domain;

						PDBTitle: solution structure of the c-terminal domain of human rpa322 complexed with ung2(73-88) PDB header: oxidoreductase Chain: A: PDB Molecule: thiol:disulfide interchange protein dsba; PDBTitle: crystal structure of a thiol:disulfide interchange protein2 dsba from bordetella parapertussis
55	c3hd5A	Alignment	not modelled	8.4	8	PDB header: oxidoreductase Chain: B: PDB Molecule: thiol:disulfide interchange protein dsba-like; PDBTitle: crystal structure of reduced dsbl
56	c3c7mb	Alignment	not modelled	8.4	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: disulfide interchange protein; PDBTitle: crystal structure of disulfide interchange protein from neisseria2 gonorrhoeae
58	d1ngra	Alignment	not modelled	7.6	9	Fold: DEATH domain Superfamily: DEATH domain Family: DEATH domain, DD
59	c3t72o	Alignment	not modelled	7.4	5	PDB header: transcription/dna Chain: O: PDB Molecule: pho box dna (strand 1); PDBTitle: phob(e)-sigma70(4)-(rnap-beta-flap-tip-helix)-dna transcription2 activation sub-complex
60	c2kw0A	Alignment	not modelled	7.4	0	PDB header: oxidoreductase Chain: A: PDB Molecule: ccmh protein; PDBTitle: solution structure of n-terminal domain of ccmh from escherichia.coli
61	c2jb1C	Alignment	not modelled	7.4	17	PDB header: electron transport Chain: C: PDB Molecule: photosynthetic reaction center cytochrome c PDBTitle: photosynthetic reaction center from blastochloris viridis
62	c3feuA	Alignment	not modelled	7.3	22	PDB header: oxidoreductase Chain: A: PDB Molecule: putative lipoprotein; PDBTitle: crystal structure of dsba-like thioredoxin domain vf_a0457 from vibrio2 fischeri
63	c3h93A	Alignment	not modelled	7.3	17	PDB header: transcription regulator Chain: A: PDB Molecule: thiol:disulfide interchange protein dsba; PDBTitle: crystal structure of pseudomonas aeruginosa dsba
64	c2hl7A	Alignment	not modelled	7.2	6	PDB header: oxidoreductase Chain: A: PDB Molecule: cytochrome c-type biogenesis protein ccmh; PDBTitle: crystal structure of the periplasmic domain of ccmh from pseudomonas2 aeruginosa
65	c3o6cA	Alignment	not modelled	7.1	16	PDB header: transferase Chain: A: PDB Molecule: pyridoxine 5'-phosphate synthase; PDBTitle: pyridoxal phosphate biosynthetic protein pdxj from campylobacter2 jejuni
66	c3msuA	Alignment	not modelled	7.1	16	PDB header: transferase Chain: A: PDB Molecule: citrate synthase; PDBTitle: crystal structure of citrate synthase from francisella tularensis
67	c2remB	Alignment	not modelled	6.9	25	PDB header: oxidoreductase Chain: B: PDB Molecule: disulfide oxidoreductase; PDBTitle: crystal structure of oxidoreductase dsba from xylella2 fastidiosa
68	d1go3e2	Alignment	not modelled	6.7	15	Fold: Dodecin subunit-like Superfamily: N-terminal, heterodimerisation domain of RBP7 (RpoE) Family: N-terminal, heterodimerisation domain of RBP7 (RpoE)
69	d1fvka	Alignment	not modelled	6.5	22	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: DsbA-like
70	d1t33a2	Alignment	not modelled	6.5	6	Fold: Tetracyclin repressor-like, C-terminal domain Superfamily: Tetracyclin repressor-like, C-terminal domain Family: Tetracyclin repressor-like, C-terminal domain
71	d1abaa	Alignment	not modelled	6.5	25	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Thioltransferase
72	c1leysC	Alignment	not modelled	6.4	19	PDB header: electron transport Chain: C: PDB Molecule: photosynthetic reaction center; PDBTitle: crystal structure of photosynthetic reaction center from a2 thermophilic bacterium, thermochromatium tepidum
73	d1leysc	Alignment	not modelled	6.4	19	Fold: Multiheme cytochromes Superfamily: Multiheme cytochromes Family: Photosynthetic reaction centre (cytochrome subunit)
74	d2c35b2	Alignment	not modelled	6.4	19	Fold: Dodecin subunit-like Superfamily: N-terminal, heterodimerisation domain of RBP7 (RpoE) Family: N-terminal, heterodimerisation domain of RBP7 (RpoE)
75	d1brwal	Alignment	not modelled	6.4	9	Fold: Methionine synthase domain-like Superfamily: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain Family: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain
76	c3gykC	Alignment	not modelled	6.3	17	PDB header: oxidoreductase Chain: C: PDB Molecule: 27kda outer membrane protein; PDBTitle: the crystal structure of a thioredoxin-like oxidoreductase from2 silicibacter pomeroyi dss-3
77	c2w36B	Alignment	not modelled	6.3	11	PDB header: hydrolase Chain: B: PDB Molecule: endonuclease v; PDBTitle: structures of endonuclease v with dna reveal initiation of2 deaminated adenine repair
78	c3thgA	Alignment	not modelled	6.3	11	PDB header: protein binding Chain: A: PDB Molecule: ribulose bisphosphate carboxylase/oxygenase activase 1, PDBTitle: crystal structure of the creosote rubisco activase c-domain
79	c3oq9C	Alignment	not modelled	6.2	9	PDB header: apoptosis Chain: C: PDB Molecule: tumor necrosis factor receptor superfamily member 6; PDBTitle: structure of the fas/fadd death domain assembly

80	d2i5nc1		Alignment	not modelled	6.2	17	Fold: Multiheme cytochromes Superfamily: Multiheme cytochromes Family: Photosynthetic reaction centre (cytochrome subunit)
81	d1pbwa		Alignment	not modelled	6.0	17	Fold: GTPase activation domain, GAP Superfamily: GTPase activation domain, GAP Family: BCR-homology GTPase activation domain (BH-domain)
82	d1leaka1		Alignment	not modelled	6.0	12	Fold: PGBD-like Superfamily: PGBD-like Family: MMP N-terminal domain
83	d1x4pa1		Alignment	not modelled	5.9	17	Fold: Surp module (SWAP domain) Superfamily: Surp module (SWAP domain) Family: Surp module (SWAP domain)
84	d1o17a1		Alignment	not modelled	5.9	14	Fold: Methionine synthase domain-like Superfamily: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain Family: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain
85	d2hsga1		Alignment	not modelled	5.9	8	PDB header: membrane protein Chain: A: PDB Molecule: dally-like protein; PDBTitle: the crystal structure of drosophila dally-like protein core domain
86	c3odnA		Alignment	not modelled	5.8	16	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Sigma3 and sigma4 domains of RNA polymerase sigma factors Family: Sigma4 domain
87	d1ttya		Alignment	not modelled	5.8	7	PDB header: hydrolase Chain: A: PDB Molecule: hhn endonuclease; PDBTitle: x-ray structure of the hhn endonuclease from geobacter2 metallireducens. northeast structural genomics consortium3 target gmr87.
88	c2qgpA		Alignment	not modelled	5.8	11	PDB header: transcription Chain: A: PDB Molecule: zinc finger y-chromosomal protein; PDBTitle: nmr structure of the zfy-6[ty10] zinc finger
89	c1klsA		Alignment	not modelled	5.8	40	Fold: lambda repressor-like DNA-binding domains Superfamily: lambda repressor-like DNA-binding domains Family: GalR/LacI-like bacterial regulator
90	d1qpza1		Alignment	not modelled	5.8	13	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
91	d1klra		Alignment	not modelled	5.7	40	PDB header: transcription Chain: A: PDB Molecule: zinc finger y-chromosomal protein; PDBTitle: nmr structure of the zfy-6[ty10f] zinc finger
92	c1klrA		Alignment	not modelled	5.7	40	Fold: TIM beta/alpha-barrel Superfamily: (Trans)glycosidases Family: alpha-D-glucuronidase/Hyaluronidase catalytic domain
93	d2cbia2		Alignment	not modelled	5.7	14	PDB header: transcription Chain: A: PDB Molecule: zinc finger y-chromosomal protein; PDBTitle: nmr structure of a zinc finger with cyclohexanylalanine2 substituted for the central aromatic residue
94	c1xrzA		Alignment	not modelled	5.6	40	Fold: Tetracyclin repressor-like, C-terminal domain Superfamily: Tetracyclin repressor-like, C-terminal domain Family: Tetracyclin repressor-like, C-terminal domain
95	d2g7la2		Alignment	not modelled	5.6	10	PDB header: metal binding protein Chain: A: PDB Molecule: radical sam enzyme; PDBTitle: crystal structure of p. horikoshii tyw1
96	c2yx0A		Alignment	not modelled	5.6	43	PDB header: transcription regulator Chain: A: PDB Molecule: hth-type transcriptional repressor cytr; PDBTitle: structure of the cytidine repressor dna-binding domain; an alternate2 calculation
97	c2lcvA		Alignment	not modelled	5.5	10	PDB header: oxidoreductase Chain: A: PDB Molecule: disulfide bond formation protein d; PDBTitle: crystal structure of etda-treated bdbd (reduced)
98	c3ghaA		Alignment	not modelled	5.3	19	Fold: CobE/GbiG C-terminal domain-like Superfamily: CobE/GbiG C-terminal domain-like Family: CobE/GbiG C-terminal domain-like
99	d2w6ka1		Alignment	not modelled	5.2	15	