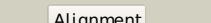
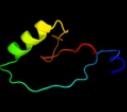
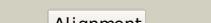
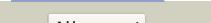
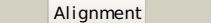
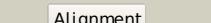


Phyre²

Email	i.a.kelley@imperial.ac.uk
Description	P0AF90
Date	Thu Jan 5 11:25:36 GMT 2012
Unique Job ID	7f4f8e5a2219af63

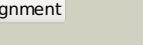
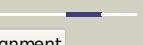
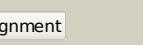
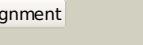
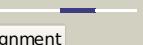
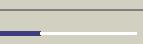
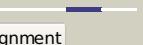
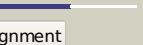
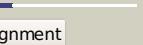
Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1nxia_			100.0	65	Fold: Ferredoxin-like Superfamily: Hypothetical protein VC0424 Family: Hypothetical protein VC0424
2	d1j5ya2			47.4	33	Fold: HPr-like Superfamily: Putative transcriptional regulator TM1602, C-terminal domain Family: Putative transcriptional regulator TM1602, C-terminal domain
3	c3tqxA_			35.6	13	PDB header: transferase Chain: A: PDB Molecule: 2-amino-3-ketobutyrate coenzyme a ligase; PDBTitle: structure of the 2-amino-3-ketobutyrate coenzyme a ligase (kbl) from2 coxiella burnetii
4	d1fc4a_			28.6	19	Fold: PLP-dependent transferase-like Superfamily: PLP-dependent transferases Family: GABA-aminotransferase-like
5	c3hqtb_			27.5	13	PDB header: transferase Chain: B: PDB Molecule: cai-1 autoinducer synthase; PDBTitle: plp-dependent acyl-coa transferase cqsA
6	c2p7pB_			26.9	24	PDB header: metal binding protein, hydrolase Chain: B: PDB Molecule: glyoxalase family protein; PDBTitle: crystal structure of genomically encoded fosfomycin resistance2 protein, fosx, from listeria monocytogenes complexed with mn(ii) and3 sulfate ion
7	c3qwua_			26.4	11	PDB header: ligase Chain: A: PDB Molecule: dna ligase; PDBTitle: putative atp-dependent dna ligase from aquifex aeolicus.
8	c3a2ba_			25.5	17	PDB header: transferase Chain: A: PDB Molecule: serine palmitoyltransferase; PDBTitle: crystal structure of serine palmitoyltransferase from sphingobacterium2 multivorum with substrate l-serine
9	d2c0ra1			24.7	15	Fold: PLP-dependent transferase-like Superfamily: PLP-dependent transferases Family: GABA-aminotransferase-like
10	c2w8wA_			22.1	12	PDB header: transferase Chain: A: PDB Molecule: serine palmitoyltransferase; PDBTitle: n100y spt with plp-ser
11	d2fhfa3			20.5	18	Fold: prealbumin-like Superfamily: Starch-binding domain-like Family: PUD-like

12	c2x48B			18.7	24	PDB header: viral protein Chain: B: PDB Molecule: cag38821; PDBTitle: orf 55 from sulfolobus islandicus rvdivirus 1
13	d2je6i2			18.2	27	Fold: Barrel-sandwich hybrid Superfamily: Ribosomal L27 protein-like Family: ECR1 N-terminal domain-like
14	c3qm2A			16.8	9	PDB header: transferase Chain: A: PDB Molecule: phosphoserine aminotransferase; PDBTitle: 2.25 angstrom crystal structure of phosphoserine aminotransferase2 (serc) from salmonella enterica subsp. enterica serovar typhimurium
15	c3hz7A			16.3	23	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of the sira-like protein (dsy4693) from2 desulfobacterium haafiense, northeast structural genomics3 consortium target dhr2a
16	d1o59a1			16.3	83	Fold: Galactose-binding domain-like Superfamily: Galactose-binding domain-like Family: Allantioicase repeat
17	d1r9ca			15.8	19	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
18	c1zswA			14.8	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: glyoxalase family protein; PDBTitle: crystal structure of bacillus cereus metallo protein from glyoxalase2 family
19	c1z64A			14.6	67	PDB header: antimicrobial protein Chain: A: PDB Molecule: pleurocidin; PDBTitle: nmr solution structure of pleurocidin in dpc micelles
20	d2j44a2			14.5	18	Fold: Prealbumin-like Superfamily: Starch-binding domain-like Family: PUD-like
21	d2j43a1		not modelled	13.8	9	Fold: Prealbumin-like Superfamily: Starch-binding domain-like Family: PUD-like
22	c1wlnA		not modelled	13.7	27	PDB header: transferase Chain: A: PDB Molecule: phosphatidylinositol 3-kinase tor1; PDBTitle: the solution structure of the fatc domain of the protein2 kinase tor1 from yeast
23	c2qv5A		not modelled	13.1	17	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein atu2773; PDBTitle: crystal structure of uncharacterized protein atu2773 from2 agrobacterium tumefaciens c58
24	c1j5yA		not modelled	12.5	33	PDB header: transcription Chain: A: PDB Molecule: transcriptional regulator, biotin repressor family; PDBTitle: crystal structure of transcriptional regulator (tm1602) from2 thermotoga maritima at 2.3 a resolution
25	d2j73a1		not modelled	12.4	45	Fold: Prealbumin-like Superfamily: Starch-binding domain-like Family: PUD-like
26	c2j43A		not modelled	12.2	18	PDB header: carbohydrate-binding module Chain: A: PDB Molecule: spydx; PDBTitle: alpha-glucan recognition by family 41 carbohydrate-binding2 modules from streptococcal virulence factors
27	c2ke4A		not modelled	11.8	45	PDB header: membrane protein Chain: A: PDB Molecule: cdc42-interacting protein 4; PDBTitle: the nmr structure of the tc10 and cdc42 interacting domain2 of cip4
28	d2j43a2		not modelled	11.8	25	Fold: Prealbumin-like Superfamily: Starch-binding domain-like Family: PUD-like

29	c3m2oB		Alignment	not modelled	11.7	36	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: glyoxalase/bleomycin resistance protein; PDBTitle: crystal structure of a putative glyoxalase/bleomycin resistance2 protein from rhodopseudomonas palustris cga009
30	c3dxvA		Alignment	not modelled	11.6	16	PDB header: isomerase Chain: A: PDB Molecule: alpha-amino-epsilon-caprolactam racemase; PDBTitle: the crystal structure of alpha-amino-epsilon-caprolactam racemase2 from2 achromobacter obae
31	d2j44a1		Alignment	not modelled	11.4	27	Fold: prealbumin-like Superfamily: Starch-binding domain-like Family: PUD-like
32	d1utaa		Alignment	not modelled	11.2	14	Fold: Ferrodoxin-like Superfamily: Sporulation related repeat Family: Sporulation related repeat
33	c2j44A		Alignment	not modelled	11.2	38	PDB header: carbohydrate-binding module Chain: A: PDB Molecule: alkaline amylolysinase; PDBTitle: alpha-glucan binding by a streptococcal virulence factor
34	d1mqta		Alignment	not modelled	11.0	57	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Picornaviridae-like VP (VP1, VP2, VP3 and VP4)
35	d1bs0a		Alignment	not modelled	10.7	15	Fold: PLP-dependent transferase-like Superfamily: PLP-dependent transferases Family: GABA-aminotransferase-like
36	d1x9ba		Alignment	not modelled	10.1	16	Fold: Protozoan pheromone-like Superfamily: Hypothetical membrane protein Ta0354, soluble domain Family: Hypothetical membrane protein Ta0354, soluble domain
37	c2f06B		Alignment	not modelled	10.1	10	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: conserved hypothetical protein; PDBTitle: crystal structure of protein bt0572 from bacteroides thetaiotomicron
38	d1loopa		Alignment	not modelled	9.9	57	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Picornaviridae-like VP (VP1, VP2, VP3 and VP4)
39	c1z7s1		Alignment	not modelled	9.7	26	PDB header: virus Chain: 1: PDB Molecule: human coxsackievirus a21; PDB Fragment: viral protein 1; PDBTitle: the crystal structure of coxsackievirus a21
40	c1wv9B		Alignment	not modelled	8.9	25	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: rhodanese homolog tt1651; PDBTitle: crystal structure of rhodanese homolog tt1651 from an2 extremely thermophilic bacterium thermus thermophilus hb8
41	c1zbe1		Alignment	not modelled	8.7	57	PDB header: virus Chain: 1: PDB Molecule: coat protein vp1; PDBTitle: foot-and-mouth disease virus serotype a1061
42	d1o59a2		Alignment	not modelled	8.6	80	Fold: Galactose-binding domain-like Superfamily: Galactose-binding domain-like Family: Allantoinase repeat
43	c2wff1		Alignment	not modelled	8.5	57	PDB header: virus Chain: 1: PDB Molecule: p1; PDB Fragment: capsid protein vp4, residues 1-80 PDBTitle: equine rhinitis a virus
44	d1d4m1		Alignment	not modelled	7.8	57	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Picornaviridae-like VP (VP1, VP2, VP3 and VP4)
45	c2jg6A		Alignment	not modelled	7.8	6	PDB header: hydrolase Chain: A: PDB Molecule: dna-3-methyladenine glycosidase; PDBTitle: crystal structure of a 3-methyladenine dna glycosylase i2 from staphylococcus aureus
46	c2lciA		Alignment	not modelled	7.7	33	PDB header: de novo protein Chain: A: PDB Molecule: protein or36; PDBTitle: solution nmr structure of de novo designed protein, p-loop ntpase2 fold, northeast structural genomics consortium target or36 (cas3d target)
47	d1jc4a		Alignment	not modelled	7.6	12	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Methylmalonyl-CoA epimerase
48	c2rbbB		Alignment	not modelled	7.6	18	PDB header: oxidoreductase Chain: B: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of a glyoxalase/bleomycin resistance2 protein/dioxygenase family enzyme from burkholderia phytofirmans psj1
49	d1pvc1		Alignment	not modelled	7.6	25	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Picornaviridae-like VP (VP1, VP2, VP3 and VP4)
50	c2gcfA		Alignment	not modelled	7.4	14	PDB header: hydrolase Chain: A: PDB Molecule: cation-transporting atpase pacs; PDBTitle: solution structure of the n-terminal domain of the copper(i) atpase2 pacs in its apo form
51	c3sviA		Alignment	not modelled	7.4	36	PDB header: signaling protein Chain: A: PDB Molecule: type iii effector hopab2; PDBTitle: structure of the pto-binding domain of hoppmal generated by limited2 thermolysin digestion
52	d1rhi1		Alignment	not modelled	7.4	43	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Picornaviridae-like VP (VP1, VP2, VP3 and VP4)
53	c1sg3A		Alignment	not modelled	7.4	56	PDB header: hydrolase Chain: A: PDB Molecule: allantoinase; PDBTitle: structure of allantoinase
							Fold: PLP-dependent transferase-like

54	d1bjna	Alignment	not modelled	7.3	9	Superfamily: PLP-dependent transferases Family: GABA-aminotransferase-like
55	d2pc6a2	Alignment	not modelled	7.2	17	Fold: Ferredoxin-like Superfamily: ACT-like Family: IlvH-like
56	c2kyzA	Alignment	not modelled	7.2	19	PDB header: metal binding protein Chain: A: PDB Molecule: heavy metal binding protein; PDBTitle: nmr structure of heavy metal binding protein tm0320 from thermotoga2 maritima
57	d2qifa1	Alignment	not modelled	7.2	24	Fold: Ferredoxin-like Superfamily: HMA, heavy metal-associated domain Family: HMA, heavy metal-associated domain
58	d2f1fa1	Alignment	not modelled	7.2	13	Fold: Ferredoxin-like Superfamily: ACT-like Family: IlvH-like
59	c2k7wB	Alignment	not modelled	7.1	19	PDB header: apoptosis Chain: B: PDB Molecule: bcl-2-like protein 11; PDBTitle: bax activation is initiated at a novel interaction site
60	c2rk0B	Alignment	not modelled	7.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase domain; PDBTitle: crystal structure of glyoxalase/bleomycin resistance2 protein/dioxygenase domain from frankia sp. ean1pec
61	d1xqaa	Alignment	not modelled	7.0	21	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
62	d1eah1	Alignment	not modelled	7.0	19	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Picornaviridae-like VP (VP1, VP2, VP3 and VP4)
63	d1lqqp1	Alignment	not modelled	6.9	29	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Picornaviridae-like VP (VP1, VP2, VP3 and VP4)
64	c1lik9C	Alignment	not modelled	6.8	50	PDB header: gene regulation/ligase Chain: C: PDB Molecule: dna ligase iv; PDBTitle: crystal structure of a xrcc4-dna ligase iv complex
65	d1zhva2	Alignment	not modelled	6.8	19	Fold: Ferredoxin-like Superfamily: ACT-like Family: Atu0741-like
66	d1cov1	Alignment	not modelled	6.8	57	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Picornaviridae-like VP (VP1, VP2, VP3 and VP4)
67	d2ajta2	Alignment	not modelled	6.7	10	Fold: Fuci/AraA N-terminal and middle domains Superfamily: Fuci/AraA N-terminal and middle domains Family: AraA N-terminal and middle domain-like
68	c1fi8E	Alignment	not modelled	6.6	57	PDB header: hydrolase/hydrolase inhibitor Chain: E: PDB Molecule: ecotin; PDBTitle: rat granzyme b [n66q] complexed to ecotin [81-84 iepd]
69	c3hgkE	Alignment	not modelled	6.6	22	PDB header: transferase Chain: E: PDB Molecule: effector protein hopab2; PDBTitle: crystal structure of effect protein avrptb complexed with2 kinase pto
70	c2r6ub	Alignment	not modelled	6.6	45	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of gene product rha04853 from rhodococcus sp. rha1
71	c3eyiB	Alignment	not modelled	6.6	41	PDB header: z-dna binding protein/z-dna binding protein 1; PDBTitle: the crystal structure of the second z-dna binding domain of2 human dai (zbp1) in complex with z-dna
72	c2jz7A	Alignment	not modelled	6.5	28	PDB header: selenium-binding protein Chain: A: PDB Molecule: selenium binding protein; PDBTitle: solution nmr structure of selenium-binding protein from2 methanococcus vannielii
73	d1zyea1	Alignment	not modelled	6.5	36	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Glutathione peroxidase-like
74	c3g87B	Alignment	not modelled	6.4	11	PDB header: transferase activator/transferase Chain: B: PDB Molecule: n6 adenine specific dna methylase; PDBTitle: structure of eukaryotic translation termination complex2 methyltransferase mtq2-trm12
75	c3kolA	Alignment	not modelled	6.4	64	PDB header: metal binding protein Chain: A: PDB Molecule: glyoxalase/bleomycin resistance PDBTitle: crystal structure of a glyoxalase/dioxygenase from nostoc2 punctiforme
76	d2e7ja1	Alignment	not modelled	6.4	19	Fold: PLP-dependent transferase-like Superfamily: PLP-dependent transferases Family: SepSecS-like
77	d1aym1	Alignment	not modelled	6.0	43	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Picornaviridae-like VP (VP1, VP2, VP3 and VP4)
78	c3oajA	Alignment	not modelled	5.9	31	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative ring-cleaving dioxygenase mhqo; PDBTitle: crystal structure of putative dioxygenase from bacillus subtilis2 subsp. subtilis str. 168
79	c2nl9B	Alignment	not modelled	5.9	19	PDB header: apoptosis Chain: B: PDB Molecule: bcl-2-like protein 11; PDBTitle: crystal structure of the mcl-1:bim bh3 complex
						Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase

80	d1sqia2		not modelled	5.9	15	Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
81	c3sk1C		not modelled	5.8	36	PDB header: griseoluteate-binding protein Chain: C: PDB Molecule: ehpr; PDBTitle: crystal structure of phenazine resistance protein ehpr from2 enterobacter agglomerans (erwinia herbicola, pantoea agglomerans)3 eh1087, apo form
82	c2169A		not modelled	5.8	27	PDB header: de novo protein Chain: A: PDB Molecule: rosmann 2x3 fold protein; PDBTitle: solution nmr structure of de novo designed protein, p-loop ntpase2 fold, northeast structural genomics consortium target or28
83	d1elua		not modelled	5.8	11	Fold: PLP-dependent transferase-like Superfamily: PLP-dependent transferases Family: Cystathionine synthase-like
84	d1tme1		not modelled	5.8	25	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Picornaviridae-like VP (VP1, VP2, VP3 and VP4)
85	c2cosA		not modelled	5.7	36	PDB header: transferase Chain: A: PDB Molecule: serine/threonine protein kinase lats2; PDBTitle: solution structure of rsg1 ruh-038, a uba domain from mouse2 lats2 (large tumor suppressor homolog 2)
86	d2ggpb1		not modelled	5.5	10	Fold: Ferrodoxin-like Superfamily: HMA, heavy metal-associated domain Family: HMA, heavy metal-associated domain
87	c1yg0A		not modelled	5.5	22	PDB header: metal transport Chain: A: PDB Molecule: cop associated protein; PDBTitle: solution structure of apo-copp from helicobacter pylori
88	c3h25A		not modelled	5.5	18	PDB header: replication/dna Chain: A: PDB Molecule: replication protein b; PDBTitle: crystal structure of the catalytic domain of primase repb' in complex2 with initiator dna
89	d1e2ya		not modelled	5.5	36	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Glutathione peroxidase-like
90	d1kn0a		not modelled	5.4	23	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: The homologous-pairing domain of Rad52 recombinase
91	c3q1jA		not modelled	5.3	17	PDB header: transcription Chain: A: PDB Molecule: phd finger protein 20; PDBTitle: crystal structure of tudor domain 1 of human phd finger protein 20
92	c3rr1B		not modelled	5.3	18	PDB header: metal binding protein Chain: B: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of glyoxalase/bleomycin resistance2 protein/dioxygenase from alicyclobacillus acidocaldarius
93	d1t47a2		not modelled	5.2	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
94	d1k4na		not modelled	5.2	13	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Hypothetical protein YecM (EC4020)
95	c3e0rC		not modelled	5.2	11	PDB header: hydrolase Chain: C: PDB Molecule: c3-degrading proteinase (cpa protein); PDBTitle: crystal structure of cpa protein from streptococcus pneumoniae tigr4
96	d1ug7a		not modelled	5.2	50	Fold: Four-helical up-and-down bundle Superfamily: Domain from hypothetical 2610208m17rik protein Family: Domain from hypothetical 2610208m17rik protein
97	d1tmf1		not modelled	5.1	15	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Picornaviridae-like VP (VP1, VP2, VP3 and VP4)
98	c2f1fA		not modelled	5.1	13	PDB header: transferase Chain: A: PDB Molecule: acetolactate synthase isozyme iii small subunit; PDBTitle: crystal structure of the regulatory subunit of2 acetohydroxyacid synthase isozyme iii from e. coli
99	d1kona		not modelled	5.0	20	Fold: YebC-like Superfamily: YebC-like Family: YebC-like