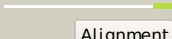

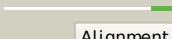

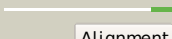

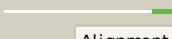

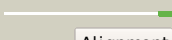
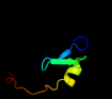














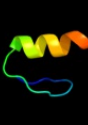





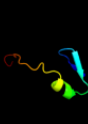


Phyre2

Email	I.a.kelley@imperial.ac.uk
Description	A1A519
Date	Wed May 9 17:50:13 BST 2012
Unique Job ID	86ab4f1d67910893

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3k1qC_	 Alignment		63.7	39	PDB header: virus Chain: C; PDB Molecule: vp3b, the building block protein of inner shell; PDBTitle: backbone model of an aquareovirus virion by cryo-electron2 microscopy and bioinformatics
2	d1zr9a1	 Alignment		57.5	42	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: HkH motif-containing C2H2 finger
3	c1zr9A_	 Alignment		57.5	42	PDB header: transcription Chain: A; PDB Molecule: zinc finger protein 593; PDBTitle: solution structure of a human c2h2-type zinc finger protein
4	c2dmiA_	 Alignment		51.8	31	PDB header: transcription Chain: A; PDB Molecule: teashirt homolog 3; PDBTitle: solution structure of the first and the second zf-c2h2 like2 domains of human teashirt homolog 3
5	d2epsa1	 Alignment		50.3	22	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
6	d2eppa1	 Alignment		48.0	36	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
7	c2ghfA_	 Alignment		45.2	20	PDB header: transcription, metal binding protein Chain: A; PDB Molecule: zinc fingers and homeoboxes protein 1; PDBTitle: solution structure of the complete zinc-finger region of2 human zinc-fingers and homeoboxes 1 (zhx1)
8	d1hcna_	 Alignment		42.5	46	Fold: Cystine-knot cytokines Superfamily: Cystine-knot cytokines Family: Gonadotropin/Follitropin
9	c2d9hA_	 Alignment		42.1	19	PDB header: dna binding protein Chain: A; PDB Molecule: zinc finger protein 692; PDBTitle: solution structure of the forth and fifth zf-c2h2 domains2 of zinc finger protein 692
10	c2ctdA_	 Alignment		41.5	19	PDB header: metal binding protein Chain: A; PDB Molecule: zinc finger protein 512; PDBTitle: solution structure of two zf-c2h2 domains from human zinc2 finger protein 512
11	c1zw8A_	 Alignment		41.4	24	PDB header: transcription Chain: A; PDB Molecule: zinc-responsive transcriptional regulator zap1; PDBTitle: solution structure of a zap1 zinc-responsive domain2 provides insights into metalleregulatory transcriptional3 repression in saccharomyces cerevisiae

12	c1zu1A	Alignment		38.7	24	PDB header: rna binding protein Chain: A; PDB Molecule: rna binding protein zfa; PDBTitle: solution structure of the n-terminal zinc fingers of the2 xenopus laevis double stranded rna binding protein zfa
13	c2kmkA	Alignment		37.3	29	PDB header: dna binding protein/dna Chain: A; PDB Molecule: zinc finger protein gfi-1; PDBTitle: gfi-1 zinc fingers 3-5 complexed with dna
14	c2dlqA	Alignment		36.3	30	PDB header: transcription Chain: A; PDB Molecule: gli-kruppel family member hkr3; PDBTitle: solution structure of the tandem four zf-c2h2 domain2 repeats of murine gli-kruppel family member hkr3
15	c2ej4A	Alignment		35.7	30	PDB header: gene regulation Chain: A; PDB Molecule: zinc finger protein zic 3; PDBTitle: functional and structural basis of nuclear localization2 signal in zic3 zinc finger domain: a role of conserved3 tryptophan residue in the zinc finger domain
16	c1cn3F	Alignment		30.8	57	PDB header: viral protein Chain: F; PDB Molecule: fragment of coat protein vp2; PDBTitle: interaction of polyomavirus internal protein vp2 with major2 capsid protein vp1 and implications for participation of3 vp2 in viral entry
17	c2ct1A	Alignment		30.4	27	PDB header: transcription Chain: A; PDB Molecule: transcriptional repressor ctcf; PDBTitle: solution structure of the zinc finger domain of2 transcriptional repressor ctcf protein
18	c2y3aB	Alignment		30.0	15	PDB header: transferase Chain: B; PDB Molecule: phosphatidylinositol 3-kinase regulatory subunit beta; PDBTitle: crystal structure of p110beta in complex with icsh2 of p85beta and2 the drug gdc-0941
19	c2knoA	Alignment		29.8	23	PDB header: hydrolase Chain: A; PDB Molecule: tensin-like c1 domain-containing phosphatase; PDBTitle: nmr solution structure of sh2 domain of the human tensin like c12 domain containing phosphatase (tenc1)
20	c2epsA	Alignment		26.6	25	PDB header: transcription Chain: A; PDB Molecule: poz-, at hook-, and zinc finger-containing PDBTitle: solution structure of the 4th zinc finger domain of zinc2 finger protein 278
21	c1x5wA	Alignment	not modelled	25.5	19	PDB header: transcription Chain: A; PDB Molecule: zinc finger protein 64, isoforms 1; PDBTitle: solution structure of the c2h2 type zinc-binding domain of2 human zinc finger protein 64, isoforms 1 and 2
22	c1g83A	Alignment	not modelled	25.2	21	PDB header: transferase Chain: A; PDB Molecule: proto-oncogene tyrosine-protein kinase fyn; PDBTitle: crystal structure of fyn sh3-sh2
23	d2oq1a1	Alignment	not modelled	24.1	17	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
24	c1wjpa	Alignment	not modelled	23.4	26	PDB header: metal binding protein Chain: A; PDB Molecule: zinc finger protein 295; PDBTitle: solution structure of zf-c2h2 domains from human zinc2 finger protein 295
25	c2dlkA	Alignment	not modelled	23.1	31	PDB header: dna binding protein Chain: A; PDB Molecule: novel protein; PDBTitle: solution structure of the first and the second zf-c2h22 domains of zinc finger protein 692
26	c2cshA	Alignment	not modelled	23.1	17	PDB header: transcription Chain: A; PDB Molecule: zinc finger protein 297b; PDBTitle: solution structure of tandem repeat of the zf-c2h2 domains2 of human zinc finger protein 297b
27	c2jvyA	Alignment	not modelled	23.1	36	PDB header: metal binding protein Chain: A; PDB Molecule: nf-kappa-b essential modulator; PDBTitle: solution structure of the eda-id-related c417f mutant of2 human nemo zinc finger
28	d1njqa	Alignment	not modelled	22.6	37	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Plant C2H2 finger (QALGGH zinc finger)
						Fold: SH2-like

29	d1f2fa_	Alignment	not modelled	21.3	10	Superfamily: SH2 domain Family: SH2 domain
30	c2elxA_	Alignment	not modelled	21.2	22	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 406; PDBTitle: solution structure of the 8th c2h2 zinc finger of mouse2 zinc finger protein 406
31	d1g0da4	Alignment	not modelled	21.1	21	Fold: Cysteine proteinases Superfamily: Cysteine proteinases Family: Transglutaminase core
32	c2qrsA_	Alignment	not modelled	20.6	27	PDB header: immune system Chain: A: PDB Molecule: h-2 class i histocompatibility antigen k-b alpha PDBTitle: crystal structure of a single chain trimer composed of the2 mhc i heavy chain h-2kb y84a, beta-2microglobulin, and3 ovalbumin-derived peptide.
33	c2drpD_	Alignment	not modelled	20.6	24	PDB header: transcription/dna Chain: D: PDB Molecule: protein (tramtrack dna-binding domain); PDBTitle: the crystal structure of a two zinc-finger peptide reveals2 an extension to the rules for zinc-finger/dna recognition
34	c2yteA_	Alignment	not modelled	20.0	23	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 473; PDBTitle: solution structure of the c2h2 type zinc finger (region 484-2 512) of human zinc finger protein 473
35	c2ebtA_	Alignment	not modelled	19.5	29	PDB header: transcription Chain: A: PDB Molecule: krueppel-like factor 5; PDBTitle: solution structure of three tandem repeats of zf-c2h22 domains from human kruppel-like factor 5
36	c1g6uB_	Alignment	not modelled	19.1	39	PDB header: de novo protein Chain: B: PDB Molecule: domain swapped dimer; PDBTitle: crystal structure of a domain swapped dimer
37	c2eozA_	Alignment	not modelled	19.0	26	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 473; PDBTitle: solution structure of the c2h2 type zinc finger (region 809-2 841) of human zinc finger protein 473
38	c2elzA_	Alignment	not modelled	19.0	21	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 224; PDBTitle: solution structure of the 17th zf-c2h2 domain from human2 zinc finger protein 224
39	c1nl0G_	Alignment	not modelled	18.9	67	PDB header: immune system Chain: G: PDB Molecule: factor ix; PDBTitle: crystal structure of human factor ix gla domain in complex2 of an inhibitory antibody, 10c12
40	c2ablA_	Alignment	not modelled	18.7	21	PDB header: transferase Chain: A: PDB Molecule: abl tyrosine kinase; PDBTitle: sh3-sh2 domain fragment of human bcr-abl tyrosine kinase
41	d2drpa1	Alignment	not modelled	18.6	35	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
42	d1vd4a_	Alignment	not modelled	18.5	44	Fold: Rubredoxin-like Superfamily: Zinc beta-ribbon Family: Transcriptional factor domain
43	c3vk6A_	Alignment	not modelled	18.1	29	PDB header: ligase Chain: A: PDB Molecule: e3 ubiquitin-protein ligase hakai; PDBTitle: crystal structure of a phosphotyrosine binding domain
44	d1srka_	Alignment	not modelled	18.0	27	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
45	d2adra2	Alignment	not modelled	17.5	38	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
46	d1kzfa_	Alignment	not modelled	17.2	10	Fold: Acyl-CoA N-acyltransferases (Nat) Superfamily: Acyl-CoA N-acyltransferases (Nat) Family: Autoinducer synthetase
47	d2oq1a2	Alignment	not modelled	17.2	19	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
48	c2gqiA_	Alignment	not modelled	17.1	24	PDB header: gene regulation Chain: A: PDB Molecule: zinc finger protein kiaa1196; PDBTitle: solution structure of the two zf-c2h2 like domains(493-575)2 of human zinc finger protein kiaa1196
49	d2shpa2	Alignment	not modelled	17.0	12	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
50	c2en3A_	Alignment	not modelled	16.5	31	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 95 homolog; PDBTitle: solution structure of the c2h2 type zinc finger (region 796-2 828) of human zinc finger protein 95 homolog
51	c2rpcA_	Alignment	not modelled	16.1	28	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein zic 3; PDBTitle: solution structure of the tandem zf-c2h2 domains from the2 human zinc finger protein zic 3
52	d1ro5a_	Alignment	not modelled	16.1	26	Fold: Acyl-CoA N-acyltransferases (Nat) Superfamily: Acyl-CoA N-acyltransferases (Nat) Family: Autoinducer synthetase
53	c2eohA_	Alignment	not modelled	15.8	19	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 28 homolog; PDBTitle: solution structure of the c2h2 type zinc finger (region 780-2 812) of human zinc finger protein 28 homolog
54	c1x6cA_	Alignment	not modelled	15.4	26	PDB header: signaling protein Chain: A: PDB Molecule: tyrosine-protein phosphatase, non-receptor type PDBTitle: solution structures of the sh2 domain of human protein-2 tyrosine phosphatase shp-1 PDB header: transcription

55	c2eovA	Alignment	not modelled	15.0	29	Chain: A: PDB Molecule: zinc finger protein 484; PDBTitle: solution structure of the c2h2 type zinc finger (region 519-2 551) of human zinc finger protein 484
56	d1wira	Alignment	not modelled	15.0	32	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: variant C2H2 finger
57	d2ct1a2	Alignment	not modelled	14.8	23	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
58	c1va1A	Alignment	not modelled	14.7	24	PDB header: transcription Chain: A: PDB Molecule: transcription factor sp1; PDBTitle: solution structure of transcription factor sp1 dna binding2 domain (zinc finger 1)
59	c1un6D	Alignment	not modelled	14.6	24	PDB header: rna-binding protein/rna Chain: D: PDB Molecule: transcription factor iiiia; PDBTitle: the crystal structure of a zinc finger - rna complex2 reveals two modes of molecular recognition
60	c1tf3A	Alignment	not modelled	14.0	31	PDB header: transcription/dna Chain: A: PDB Molecule: transcription factor iiiia; PDBTitle: tfiiiia finger 1-3 bound to dna, nmr, 22 structures
61	c1rimA	Alignment	not modelled	13.8	26	PDB header: de novo protein Chain: A: PDB Molecule: e6apc2 peptide; PDBTitle: e6-binding zinc finger (e6apc2)
62	c2ytaA	Alignment	not modelled	13.8	23	PDB header: metal binding protein Chain: A: PDB Molecule: zinc finger protein 32; PDBTitle: solution structure of c2h2 type zinc finger domain 3 in2 zinc finger protein 32
63	c2dlyA	Alignment	not modelled	13.7	13	PDB header: transferase Chain: A: PDB Molecule: fyn-related kinase; PDBTitle: solution structure of the sh2 domain of murine fyn-related2 kinase
64	c2yt9A	Alignment	not modelled	13.5	23	PDB header: transcription Chain: A: PDB Molecule: zinc finger-containing protein 1; PDBTitle: solution structure of c2h2 type zinc finger domain 345 in2 zinc finger protein 278
65	c2lctA	Alignment	not modelled	13.4	17	PDB header: signaling protein Chain: A: PDB Molecule: proto-oncogene vav; PDBTitle: solution structure of the vav1 sh2 domain complexed with a syk-derived2 doubly phosphorylated peptide
66	c2epzA	Alignment	not modelled	13.4	31	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 28 homolog; PDBTitle: solution structure of the 4th c2h2 type zinc finger domain2 of zinc finger protein 28 homolog
67	c2dmwA	Alignment	not modelled	13.3	28	PDB header: membrane protein Chain: A: PDB Molecule: synaptobrevin-like 1 variant; PDBTitle: solution structure of the longin domain of synaptobrevin-2 like protein 1
68	c2eo3A	Alignment	not modelled	13.3	18	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of the sh2 domain from human crk-like2 protein
69	c2adrA	Alignment	not modelled	12.8	37	PDB header: transcription regulation Chain: A: PDB Molecule: adr1; PDBTitle: adr1 dna-binding domain from saccharomyces cerevisiae, nmr,2 25 structures
70	c3iufA	Alignment	not modelled	12.7	17	PDB header: protein binding Chain: A: PDB Molecule: zinc finger protein ubi-d4; PDBTitle: crystal structure of the c2h2-type zinc finger domain of human ubi-d4
71	c2en8A	Alignment	not modelled	12.6	26	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 224; PDBTitle: solution structure of the c2h2 type zinc finger (region 171-2 203) of human zinc finger protein 224
72	d1ubdc3	Alignment	not modelled	12.5	33	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
73	c2ci8A	Alignment	not modelled	12.1	33	PDB header: translation Chain: A: PDB Molecule: cytoplasmic protein nck1; PDBTitle: sh2 domain of human nck1 adaptor protein - uncomplexed
74	d2eyva1	Alignment	not modelled	12.1	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
75	c2yu5A	Alignment	not modelled	12.1	42	PDB header: rna binding protein Chain: A: PDB Molecule: zinc finger protein 473; PDBTitle: solution structure of the zf-c2h2 domain (669-699aa) in2 zinc finger protein 473
76	c1rika	Alignment	not modelled	11.8	26	PDB header: de novo protein Chain: A: PDB Molecule: e6apc1 peptide; PDBTitle: e6-binding zinc finger (e6apc1)
77	d2glia1	Alignment	not modelled	11.7	33	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
78	d2csha1	Alignment	not modelled	11.6	21	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
79	d1a81e1	Alignment	not modelled	11.6	19	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
80	d1u86a1	Alignment	not modelled	11.5	31	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
81	d1a81a1	Alignment	not modelled	11.5	19	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

82	c2kvgA_	Alignment	not modelled	11.4	26	PDB header: transcription Chain: A: PDB Molecule: zinc finger and btb domain-containing protein 32; PDBTitle: structure of the three-cys2his2 domain of mouse testis zinc2 finger protein
83	c2cseW_	Alignment	not modelled	11.1	23	PDB header: virus Chain: W: PDB Molecule: major core protein lambda 1; PDBTitle: features of reovirus outer-capsid protein mu1 revealed by2 electron and image reconstruction of the virion at 7.0-a3 resolution
84	c3pt1A_	Alignment	not modelled	11.1	13	PDB header: hydrolase Chain: A: PDB Molecule: upf0364 protein ymr027w; PDBTitle: structure of duf89 from saccharomyces cerevisiae co-crystallized with2 f6p.
85	c2emcA_	Alignment	not modelled	10.8	31	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 473; PDBTitle: solution structure of the c2h2 type zinc finger (region 641-2 673) of human zinc finger protein 473
86	d1opka2	Alignment	not modelled	10.8	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
87	c2eprA_	Alignment	not modelled	10.8	26	PDB header: transcription Chain: A: PDB Molecule: poz-, at hook-, and zinc finger-containing PDBTitle: solution structure of the second zinc finger domain of2 zinc finger protein 278
88	c2dm0A_	Alignment	not modelled	10.7	17	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase btk; PDBTitle: solution structure of the sh2 domain of human tyrosine-2 protein kinase btk
89	d1pica_	Alignment	not modelled	10.6	15	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
90	c2lceA_	Alignment	not modelled	10.6	18	PDB header: transcription regulator Chain: A: PDB Molecule: b-cell lymphoma 6 protein; PDBTitle: chemical shift assignment of hr4436b from homo sapiens, northeast2 structural genomics consortium
91	c2ee8A_	Alignment	not modelled	10.5	27	PDB header: gene regulation Chain: A: PDB Molecule: protein odd-skipped-related 2; PDBTitle: solution structure of three zf-c2h2 domains from mouse2 protein odd-skipped-related 2 splicing isoform 2
92	c2dmdA_	Alignment	not modelled	10.5	24	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 64, isoforms 1 and 2; PDBTitle: solution structure of the n-terminal c2h2 type zinc-binding2 domain of the zinc finger protein 64, isoforms 1 and 2
93	c2epwA_	Alignment	not modelled	10.5	27	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 268; PDBTitle: solution structure of the 24th c2h2 type zinc finger domain2 of zinc finger protein 268
94	d1cwea_	Alignment	not modelled	10.3	19	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
95	c2crcA_	Alignment	not modelled	10.3	54	PDB header: ligase Chain: A: PDB Molecule: ubiquitin conjugating enzyme 7 interacting PDBTitle: solution structure of the zf-ranbp domain of the protein2 hbv associated factor
96	c1a81E_	Alignment	not modelled	10.3	21	PDB header: complex (transferase/peptide) Chain: E: PDB Molecule: syk kinase; PDBTitle: crystal structure of the tandem sh2 domain of the syk kinase bound to2 a dually tyrosine-phosphorylated itam
97	d1jyra_	Alignment	not modelled	10.1	12	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
98	d1r1qa_	Alignment	not modelled	10.0	11	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
99	d1csya_	Alignment	not modelled	10.0	19	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain