

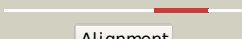

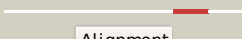




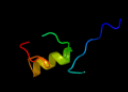

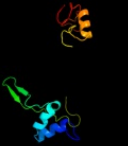




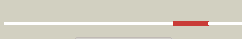
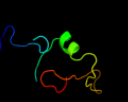

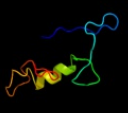




Phyre2

Email	I.a.kelley@imperial.ac.uk
Description	A0AVI4
Date	Fri May 25 09:55:06 BST 2012
Unique Job ID	5cf7a897e3c457ee

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d3dplr1	 Alignment		96.8	16	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
2	d1v87a_	 Alignment		96.4	11	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
3	c3nw0A_	 Alignment		95.5	41	PDB header: metal binding protein Chain: A: PDB Molecule: non-structural maintenance of chromosomes element 1 PDBTitle: crystal structure of mageg1 and nse1 complex
4	d1vyxa_	 Alignment		95.3	14	Fold: RING/U-box Superfamily: RING/U-box Family: Variant RING domain
5	c2ea6A_	 Alignment		95.1	33	PDB header: transcription Chain: A: PDB Molecule: ring finger protein 4; PDBTitle: solution structure of the ring domain of the human ring2 finger protein 4
6	c1fbvA_	 Alignment		94.7	32	PDB header: ligase Chain: A: PDB Molecule: signal transduction protein cbl; PDBTitle: structure of a cbl-ubch7 complex: ring domain function in2 ubiquitin-protein ligases
7	c2eclA_	 Alignment		94.4	18	PDB header: metal binding protein Chain: A: PDB Molecule: ring-box protein 2; PDBTitle: solution structure of the ring domain of the human ring-box2 protein 2
8	c2d8sA_	 Alignment		94.2	16	PDB header: metal binding protein Chain: A: PDB Molecule: cellular modulator of immune recognition; PDBTitle: solution structure of the ring domain of the human cellular2 modulator of immune recognition protein
9	c2ct0A_	 Alignment		94.1	34	PDB header: gene regulation Chain: A: PDB Molecule: non-smc element 1 homolog; PDBTitle: solution structure of the ring domain of the non-smc2 element 1 protein
10	c1x4jA_	 Alignment		93.9	27	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: ring finger protein 38; PDBTitle: solution structure of ring finger in ring finger protein 38
11	c2ep4A_	 Alignment		93.7	30	PDB header: protein binding Chain: A: PDB Molecule: ring finger protein 24; PDBTitle: solution structure of ring finger from human ring finger2 protein 24

12	d1e4ua_	Alignment		93.6	24	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
13	c2l0bA_	Alignment		93.3	22	PDB header: ligase Chain: A: PDB Molecule: e3 ubiquitin-protein ligase praja-1; PDBTitle: solution nmr structure of zinc finger domain of e3 ubiquitin-protein2 ligase praja-1 from homo sapiens, northeast structural genomics3 consortium (nesg) target hr4710b
14	c2xeuA_	Alignment		93.2	32	PDB header: transcription Chain: A: PDB Molecule: ring finger protein 4; PDBTitle: ring domain
15	c2ectA_	Alignment		93.0	27	PDB header: metal binding protein Chain: A: PDB Molecule: ring finger protein 126; PDBTitle: solution structure of the zinc finger, c3hc4 type (ring2 finger) domain of ring finger protein 126
16	c3fl2A_	Alignment		92.1	30	PDB header: ligase Chain: A: PDB Molecule: e3 ubiquitin-protein ligase Uhrf1; PDBTitle: crystal structure of the ring domain of the e3 ubiquitin-2 protein ligase Uhrf1
17	c2kizA_	Alignment		92.1	20	PDB header: metal binding protein Chain: A: PDB Molecule: e3 ubiquitin-protein ligase arkadia; PDBTitle: solution structure of arkadia ring-h2 finger domain
18	c2h0dB_	Alignment		90.9	22	PDB header: metal binding protein/ligase Chain: B: PDB Molecule: ubiquitin ligase protein ring2; PDBTitle: structure of a bmi-1-ring1b polycomb group ubiquitin ligase complex
19	d1g25a_	Alignment		90.8	27	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
20	d1iyma_	Alignment		90.3	22	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
21	d1ur6b_	Alignment	not modelled	90.1	25	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
22	d1chca_	Alignment	not modelled	89.7	28	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
23	c2d8tA_	Alignment	not modelled	89.7	23	PDB header: metal binding protein Chain: A: PDB Molecule: ring finger protein 146; PDBTitle: solution structure of the ring domain of the human ring2 finger protein 146
24	c2hdpB_	Alignment	not modelled	89.3	30	PDB header: ligase Chain: B: PDB Molecule: ubiquitin-protein ligase e3 mdm2; PDBTitle: solution structure of hdm2 ring finger domain
25	c3l11A_	Alignment	not modelled	89.1	31	PDB header: ligase Chain: A: PDB Molecule: e3 ubiquitin-protein ligase rnf168; PDBTitle: crystal structure of the ring domain of rnf168
26	d1rmda2	Alignment	not modelled	88.1	23	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
27	c4epoL_	Alignment	not modelled	87.6	32	PDB header: protein binding/ligase Chain: L: PDB Molecule: e3 ubiquitin-protein ligase rnf8; PDBTitle: crystal structure of rnf8 bound to the ubc13/mms2 heterodimer
28	c2egpA_	Alignment	not modelled	86.7	18	PDB header: antiviral protein Chain: A: PDB Molecule: tripartite motif-containing protein 34; PDBTitle: solution structure of the ring-finger domain from human2 tripartite motif protein 34
29	c2egpA_	Alignment	not modelled	86.5	23	PDB header: metal binding protein Chain: A: PDB Molecule: ring finger protein 141;

29	c2ecvA	Alignment	not modelled	86.3	33	PDBTitle: solution structure of the ring domain of the human ring2 finger protein 141 PDB header: metal binding protein Chain: A: PDB Molecule: ring finger and chy zinc finger domain-
30	c2ecmA	Alignment	not modelled	86.1	17	PDBTitle: solution structure of the ring domain of the ring finger2 and chy zinc finger domain-containing protein 1 from mus3 musculus
31	d1jm7a	Alignment	not modelled	85.9	26	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
32	c2ecvA	Alignment	not modelled	85.7	18	PDB header: ligase Chain: A: PDB Molecule: tripartite motif-containing protein 5; PDBTitle: solution structure of the zinc finger, c3hc4 type (ring2 finger) domain of tripartite motif-containing protein 5
33	c2cklB	Alignment	not modelled	84.6	24	PDB header: transcription Chain: B: PDB Molecule: ubiquitin ligase protein ring2; PDBTitle: ring1b-bmi1 e3 catalytic domain structure
34	c2ecwA	Alignment	not modelled	84.4	24	PDB header: apoptosis Chain: A: PDB Molecule: tripartite motif-containing protein 30; PDBTitle: solution structure of the zinc finger, c3hc4 type (ring2 finger) domain tripartite motif protein 30
35	c2yurA	Alignment	not modelled	83.5	21	PDB header: protein binding Chain: A: PDB Molecule: retinoblastoma-binding protein 6; PDBTitle: solution structure of the ring finger of human2 retinoblastoma-binding protein 6
36	c2ct2A	Alignment	not modelled	83.5	29	PDB header: ligase Chain: A: PDB Molecule: tripartite motif protein 32; PDBTitle: solution structure of the ring domain of the tripartite2 motif protein 32
37	c3lrqB	Alignment	not modelled	83.4	26	PDB header: ligase Chain: B: PDB Molecule: e3 ubiquitin-protein ligase trim37; PDBTitle: crystal structure of the u-box domain of human ubiquitin-2 protein ligase (e3), northeast structural genomics3 consortium target hr4604d.
38	c2jrjA	Alignment	not modelled	83.4	16	PDB header: ligase Chain: A: PDB Molecule: ring finger and chy zinc finger domain PDBTitle: solution structure of the human pirh2 ring-h2 domain.2 northeast structural genomics consortium target ht2b
39	c2y43B	Alignment	not modelled	83.2	29	PDB header: ligase Chain: B: PDB Molecule: e3 ubiquitin-protein ligase rad18; PDBTitle: rad18 ubiquitin ligase ring domain structure
40	c3vk6A	Alignment	not modelled	83.1	17	PDB header: ligase Chain: A: PDB Molecule: e3 ubiquitin-protein ligase hakai; PDBTitle: crystal structure of a phosphotyrosine binding domain
41	c2csyA	Alignment	not modelled	82.4	32	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: zinc finger protein 183-like 1; PDBTitle: solution structure of the ring domain of the zinc finger2 protein 183-like 1
42	d1fbva4	Alignment	not modelled	81.9	24	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
43	c1z6uA	Alignment	not modelled	80.7	32	PDB header: ligase Chain: A: PDB Molecule: np95-like ring finger protein isoform b; PDBTitle: np95-like ring finger protein isoform b [homo sapiens]
44	c2djbA	Alignment	not modelled	79.4	20	PDB header: gene regulation Chain: A: PDB Molecule: polycomb group ring finger protein 6; PDBTitle: solution structure of the ring domain of the human polycomb2 group ring finger protein 6
45	c2ecyA	Alignment	not modelled	78.8	30	PDB header: apoptosis Chain: A: PDB Molecule: tnf receptor-associated factor 3; PDBTitle: solution structure of the zinc finger, c3hc4 type (ring2 finger)" domain of tnf receptor-associated factor 3
46	c2cklA	Alignment	not modelled	78.1	25	PDB header: transcription Chain: A: PDB Molecule: polycomb group ring finger protein 4; PDBTitle: ring1b-bmi1 e3 catalytic domain structure
47	c2yslA	Alignment	not modelled	76.5	23	PDB header: protein binding Chain: A: PDB Molecule: tripartite motif-containing protein 31; PDBTitle: solution structure of the ring domain (1-66) from2 tripartite motif-containing protein 31
48	d1jm7b	Alignment	not modelled	72.5	21	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
49	c1rmdA	Alignment	not modelled	71.6	20	PDB header: dna-binding protein Chain: A: PDB Molecule: rag1; PDBTitle: rag1 dimerization domain
50	d1bora	Alignment	not modelled	71.6	26	Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
51	c2eciA	Alignment	not modelled	68.6	18	PDB header: metal binding protein Chain: A: PDB Molecule: tnf receptor-associated factor 6; PDBTitle: solution structure of the ring domain of the human tnf2 receptor-associated factor 6 protein
52	c3ztgA	Alignment	not modelled	67.3	22	PDB header: ligase Chain: A: PDB Molecule: e3 ubiquitin-protein ligase rbbp6; PDBTitle: solution structure of the ring finger-like domain of2 retinoblastoma binding protein-6 (rbbp6)
53	c2ea5A	Alignment	not modelled	65.4	32	PDB header: cell cycle Chain: A: PDB Molecule: cell growth regulator with ring finger domain PDBTitle: solution structure of the ring domain of the human cell2 growth regulator with ring finger domain 1 protein
54	c3htkC	Alignment	not modelled	64.6	18	PDB header: recombination/replication/ligase Chain: C: PDB Molecule: e3 sumo-protein ligase mms21; PDBTitle: crystal structure of mms21 and smc5 complex PDB header: ligase

55	c2yhoE_	Alignment	not modelled	64.5	34	Chain: E: PDB Molecule: e3 ubiquitin-protein ligase mylip; PDBTitle: the idol-ube2d complex mediates sterol-dependent degradation of the 2 Idl receptor
56	c2vjfB_	Alignment	not modelled	63.7	18	PDB header: ligase Chain: B: PDB Molecule: mdm4 protein; PDBTitle: crystal structure of the mdm2-mdmx ring domain heterodimer
57	c3knvA_	Alignment	not modelled	59.2	22	PDB header: signaling protein Chain: A: PDB Molecule: tnf receptor-associated factor 2; PDBTitle: crystal structure of the ring and first zinc finger domains2 of traf2
58	c1x4iA_	Alignment	not modelled	54.2	32	PDB header: cell adhesion Chain: A: PDB Molecule: inhibitor of growth protein 3; PDBTitle: solution structure of phd domain in inhibitor of growth2 protein 3 (ing3)
59	d1wena_	Alignment	not modelled	49.9	25	Fold: FYVE/PHD zinc finger Superfamily: FYVE/PHD zinc finger Family: PHD domain
60	c2jmdA_	Alignment	not modelled	48.5	18	PDB header: ligase Chain: A: PDB Molecule: tnf receptor-associated factor 6; PDBTitle: solution structure of the ring domain of human traf6
61	d1t1ha_	Alignment	not modelled	47.8	14	Fold: RING/U-box Superfamily: RING/U-box Family: U-box
62	d2gsva1	Alignment	not modelled	47.7	25	Fold: Open three-helical up-and-down bundle Superfamily: YvfG-like Family: YvfG-like
63	c2ecjA_	Alignment	not modelled	42.4	29	PDB header: metal binding protein Chain: A: PDB Molecule: tripartite motif-containing protein 39; PDBTitle: solution structure of the ring domain of the human2 tripartite motif-containing protein 39
64	d1qo7a_	Alignment	not modelled	41.3	15	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Epoxide hydrolase
65	c3luuA_	Alignment	not modelled	39.9	20	PDB header: biosynthetic protein Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of protein with unknown function which belongs to2 pfam duf971 family (afe_2189) from acidithiobacillus ferrooxidans3 atcc 23270 at 1.93 a resolution
66	c2kjrA_	Alignment	not modelled	39.6	18	PDB header: chaperone Chain: A: PDB Molecule: cg11242; PDBTitle: solution nmr structure of the n-terminal ubiquitin-like2 domain from tubulin-binding cofactor b, cg11242, from3 drosophila melanogaster. northeast structural genomics4 consortium target fr629a (residues 8-92)
67	c3fybA_	Alignment	not modelled	36.6	44	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: protein of unknown function (duf1244); PDBTitle: crystal structure of a protein of unknown function (duf1244) from2 alcanivorax borkumensis
68	d2c21a2	Alignment	not modelled	34.9	18	Fold: RING/U-box Superfamily: RING/U-box Family: U-box
69	c215uA_	Alignment	not modelled	34.1	21	PDB header: metal binding protein Chain: A: PDB Molecule: chromodomain-helicase-dna-binding protein 4; PDBTitle: structure of the first phd finger (phd1) from chd4 (mi2b)
70	c2o35A_	Alignment	not modelled	33.7	33	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein duf1244; PDBTitle: protein of unknown function (duf1244) from sinorhizobium meliloti
71	d2o35a1	Alignment	not modelled	33.7	33	Fold: SMc04008-like Superfamily: SMc04008-like Family: SMc04008-like
72	d1hyka_	Alignment	not modelled	33.7	38	Fold: Knottins (small inhibitors, toxins, lectins) Superfamily: Agouti-related protein Family: Agouti-related protein
73	d2baya1	Alignment	not modelled	33.0	7	Fold: RING/U-box Superfamily: RING/U-box Family: U-box
74	d2c2vv1	Alignment	not modelled	32.2	13	Fold: RING/U-box Superfamily: RING/U-box Family: U-box
75	c3hctA_	Alignment	not modelled	31.6	27	PDB header: signaling protein/ligase Chain: A: PDB Molecule: tnf receptor-associated factor 6; PDBTitle: crystal structure of traf6 in complex with ubc13 in the p12 space group
76	c2kboA_	Alignment	not modelled	31.1	25	PDB header: hydrolase Chain: A: PDB Molecule: dna dc->du-editing enzyme apobec-3g; PDBTitle: structure, interaction, and real-time monitoring of the2 enzymatic reaction of wild type apobec3g
77	c1tdhA_	Alignment	not modelled	30.9	36	PDB header: hydrolase Chain: A: PDB Molecule: nei endonuclease viii-like 1; PDBTitle: crystal structure of human endonuclease viii-like 1 (nei1)
78	d1mr0a_	Alignment	not modelled	29.9	33	Fold: Knottins (small inhibitors, toxins, lectins) Superfamily: Agouti-related protein Family: Agouti-related protein
79	c21q3A_	Alignment	not modelled	29.5	33	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: solution nmr structure of syc0711_d from synechococcus sp., northeast2 structural genomics consortium (nesg) target snr212
80	c3t6pA_	Alignment	not modelled	27.9	50	PDB header: apoptosis Chain: A: PDB Molecule: baculoviral iap repeat-containing protein 2;

						PDBTitle: iap antagonist-induced conformational change in ciap1 promotes e32 ligase activation via dimerization
81	d2dlqa4	Alignment	not modelled	27.8	60	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
82	d1tdha3	Alignment	not modelled	27.6	30	Fold: Glucocorticoid receptor-like (DNA-binding domain) Superfamily: Glucocorticoid receptor-like (DNA-binding domain) Family: C-terminal, Zn-finger domain of MutM-like DNA repair proteins
83	d2ctda1	Alignment	not modelled	27.5	29	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
84	c2f42A_	Alignment	not modelled	26.3	11	PDB header: chaperone Chain: A: PDB Molecule: stip1 homology and u-box containing protein 1; PDBTitle: dimerization and u-box domains of zebrafish c-terminal of hsp702 interacting protein
85	c2ecgA_	Alignment	not modelled	25.6	28	PDB header: apoptosis Chain: A: PDB Molecule: baculoviral iap repeat-containing protein 4; PDBTitle: solution structure of the ring domain of the baculoviral2 iap repeat-containing protein 4 from homo sapiens
86	c2ashB_	Alignment	not modelled	25.3	29	PDB header: transferase Chain: B: PDB Molecule: queuine trna-ribosyltransferase; PDBTitle: crystal structure of the queuine trna-ribosyltransferase (ec 2.4.2.29)2 (trna-guanine (tm1561) from thermotoga maritima at 1.90 a resolution
87	c3ushB_	Alignment	not modelled	25.2	33	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of the q2s0r5 protein from salinibacter ruber,2 northeast structural genomics consortium target srr207
88	d1wgma_	Alignment	not modelled	24.7	24	Fold: RING/U-box Superfamily: RING/U-box Family: U-box
89	c1y7ja_	Alignment	not modelled	24.6	56	PDB header: signaling protein Chain: A: PDB Molecule: agouti signaling protein; PDBTitle: nmr structure family of human agouti signalling protein (80-2 132: q115y, s124y)
90	c2kreA_	Alignment	not modelled	22.6	20	PDB header: protein binding Chain: A: PDB Molecule: ubiquitin conjugation factor e4 b; PDBTitle: solution structure of e4b/ufd2a u-box domain
91	c2l6nA_	Alignment	not modelled	22.2	12	PDB header: structure genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein yp_001092504.1; PDBTitle: nmr solution structure of the protein yp_001092504.1
92	c3eb6A_	Alignment	not modelled	22.1	44	PDB header: apoptosis, ligase Chain: A: PDB Molecule: baculoviral iap repeat-containing protein 3; PDBTitle: structure of the ciap2 ring domain bound to ubch5b
93	d1r5ya_	Alignment	not modelled	19.8	29	Fold: TIM beta/alpha-barrel Superfamily: tRNA-guanine transglycosylase Family: tRNA-guanine transglycosylase
94	d2pnxa1	Alignment	not modelled	19.7	29	Fold: FYVE/PHD zinc finger Superfamily: FYVE/PHD zinc finger Family: PHD domain
95	d1j8ca_	Alignment	not modelled	18.3	12	Fold: beta-Grasp (ubiquitin-like) Superfamily: Ubiquitin-like Family: Ubiquitin-related
96	d1weua_	Alignment	not modelled	18.1	29	Fold: FYVE/PHD zinc finger Superfamily: FYVE/PHD zinc finger Family: PHD domain
97	d2k1ja1	Alignment	not modelled	18.0	25	Fold: FYVE/PHD zinc finger Superfamily: FYVE/PHD zinc finger Family: PHD domain
98	c2xzzA_	Alignment	not modelled	17.9	8	PDB header: transferase Chain: A: PDB Molecule: protein-glutamine gamma-glutamyltransferase k; PDBTitle: crystal structure of the human transglutaminase 1 beta-barrel domain
99	c2l6pA_	Alignment	not modelled	17.8	20	PDB header: structure genomics, unknown function Chain: A: PDB Molecule: phac1, phac2 and phad genes; PDBTitle: nmr solution structure of the protein np_253742.1