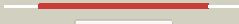

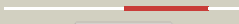





















Phyre2

Email	I.a.kelley@imperial.ac.uk
Description	Q9W4A9
Date	Wed Feb 13 11:40:50 GMT 2013
Unique Job ID	6a634b058052ce20

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1xa6A_	 Alignment		100.0	44	PDB header: signaling protein Chain: A: PDB Molecule: beta2-chimaerin; PDBTitle: crystal structure of the human beta2-chimaerin
2	c3byiA_	 Alignment		100.0	26	PDB header: signaling protein Chain: A: PDB Molecule: rho gtpase activating protein 15; PDBTitle: crystal structure of human rho gtpase activating protein 15 (arhgap15)
3	d1xa6a1	 Alignment		100.0	41	Fold: GTPase activation domain, GAP Superfamily: GTPase activation domain, GAP Family: BCR-homology GTPase activation domain (BH-domain)
4	c3iugA_	 Alignment		100.0	30	PDB header: splicing Chain: A: PDB Molecule: rho/cdc42/rac gtpase-activating protein rics; PDBTitle: crystal structure of the rhogap domain of rics
5	c3fk2B_	 Alignment		100.0	30	PDB header: signaling protein, hydrolase activator Chain: B: PDB Molecule: glucocorticoid receptor dna-binding factor 1; PDBTitle: crystal structure of the rhogap domain of human2 glucocorticoid receptor dna-binding factor 1
6	c2ngrB_	 Alignment		100.0	24	PDB header: hydrolase Chain: B: PDB Molecule: protein (gtpase activating protein (rhg)); PDBTitle: transition state complex for gtp hydrolysis by cdc42:2 comparisons of the high resolution structures for cdc423 bound to the active and catalytically compromised forms of4 the cdc42-gap.
7	c2ee5A_	 Alignment		100.0	28	PDB header: hydrolase Chain: A: PDB Molecule: rho gtpase activating protein 5 variant; PDBTitle: solution structure of the n-terminus extended rhogap2 domain from human rho gtpase activating protein 5 variant
8	d1bx4a_	 Alignment		100.0	24	Fold: GTPase activation domain, GAP Superfamily: GTPase activation domain, GAP Family: BCR-homology GTPase activation domain (BH-domain)
9	c3msxB_	 Alignment		100.0	25	PDB header: protein binding Chain: B: PDB Molecule: rho gtpase-activating protein 20; PDBTitle: crystal structure of rhoa.gdp.mgf3 in complex with gap domain of2 arhgap20
10	c3kugA_	 Alignment		100.0	25	PDB header: hydrolase activator Chain: A: PDB Molecule: rho gtpase-activating protein 7; PDBTitle: crystal structure of the dlc1 rhogap domain
11	c2ovjA_	 Alignment		100.0	30	PDB header: signaling protein Chain: A: PDB Molecule: rac gtpase-activating protein 1; PDBTitle: the crystal structure of the human rac gtpase activating protein 12 (racgap1) mgcracgap.

12	c1f7cA_	Alignment		100.0	29	PDB header: signaling protein Chain: A: PDB Molecule: rhogap protein; PDBTitle: crystal structure of the bh domain from graf, the gtpase2 regulator associated with focal adhesion kinase
13	d1f7ca_	Alignment		100.0	29	Fold: GTPase activation domain, GAP Superfamily: GTPase activation domain, GAP Family: BCR-homology GTPase activation domain (BH-domain)
14	c3qjsA_	Alignment		100.0	21	PDB header: hydrolase/protein binding Chain: A: PDB Molecule: inositol polyphosphate 5-phosphatase ocr1-1; PDBTitle: recognition of the f&h motif by the lowe syndrome protein ocr1
15	c3eapD_	Alignment		100.0	25	PDB header: hydrolase activator Chain: D: PDB Molecule: rho gtpase-activating protein 11a; PDBTitle: crystal structure of the rhogap domain of arhgap11a
16	c2qv2A_	Alignment		100.0	23	PDB header: hydrolase Chain: A: PDB Molecule: inositol polyphosphate 5-phosphatase ocr1-1; PDBTitle: a role of the lowe syndrome protein ocr1 in early steps of2 the endocytic pathway
17	d1pbwa_	Alignment		100.0	24	Fold: GTPase activation domain, GAP Superfamily: GTPase activation domain, GAP Family: BCR-homology GTPase activation domain (BH-domain)
18	c1pbwB_	Alignment		100.0	24	PDB header: phosphotransferase Chain: B: PDB Molecule: phosphatidylinositol 3-kinase; PDBTitle: structure of bcr-homology (bh) domain
19	c2xs6A_	Alignment		100.0	24	PDB header: transferase Chain: A: PDB Molecule: phosphatidylinositol 3-kinase regulatory subunit beta; PDBTitle: crystal structure of the rhogap domain of human pik3r2
20	d1xa6a2	Alignment		99.8	38	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
21	c3hizB_	Alignment	not modelled	99.3	25	PDB header: transferase/oncoprotein Chain: B: PDB Molecule: phosphatidylinositol 3-kinase regulatory subunit PDBTitle: crystal structure of p110alpha h1047r mutant in complex with2 nish2 of p85alpha
22	c2oq1A_	Alignment	not modelled	99.2	23	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: tandem sh2 domains of zap-70 with 19-mer zeta1 peptide
23	c2lqnA_	Alignment	not modelled	99.2	26	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of crkl
24	c2eo6A_	Alignment	not modelled	99.2	25	PDB header: signaling protein Chain: A: PDB Molecule: b-cell linker protein; PDBTitle: solution structure of the sh2 domain from mouse b-cell12 linker protein blnk
25	c2ozoA_	Alignment	not modelled	99.2	23	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: autoinhibited intact human zap-70
26	c2y3aB_	Alignment	not modelled	99.2	22	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
27	c2shpA_	Alignment	not modelled	99.1	30	PDB header: tyrosine phosphatase Chain: A: PDB Molecule: shp-2; PDBTitle: tyrosine phosphatase shp-2
28	d2oq1a1	Alignment	not modelled	99.1	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

29	c2c9wA	Alignment	not modelled	99.1	25	PDB header: transcription regulation Chain: A: PDB Molecule: suppressor of cytokine signaling 2; PDBTitle: crystal structure of socs-2 in complex with elongin-b and2 elongin-c at 1.9a resolution
30	c4fi2A	Alignment	not modelled	99.1	24	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase syk; PDBTitle: structural and biophysical characterization of the syk activation2 switch
31	c2fo0A	Alignment	not modelled	99.1	32	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase abl1 (1b isoform); PDBTitle: organization of the sh3-sh2 unit in active and inactive forms of the2 c-abl tyrosine kinase
32	c2vifA	Alignment	not modelled	99.1	26	PDB header: signaling protein Chain: A: PDB Molecule: suppressor of cytokine signalling 6; PDBTitle: crystal structure of socs6 sh2 domain in complex with a c-kit2 phosphopeptide
33	c3ps5A	Alignment	not modelled	99.1	27	PDB header: hydrolase, signaling protein Chain: A: PDB Molecule: tyrosine-protein phosphatase non-receptor type 6; PDBTitle: crystal structure of the full-length human protein tyrosine2 phosphatase shp-1
34	c2crhA	Alignment	not modelled	99.1	21	PDB header: signaling protein Chain: A: PDB Molecule: vav proto-oncogene; PDBTitle: solution structure of the sh2 domain of human proto-2 oncogene protein vav1
35	d1fhsa	Alignment	not modelled	99.1	17	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
36	c2b3oA	Alignment	not modelled	99.1	27	PDB header: hydrolase Chain: A: PDB Molecule: tyrosine-protein phosphatase, non-receptor type PDBTitle: crystal structure of human tyrosine phosphatase shp-1
37	c3gqiB	Alignment	not modelled	99.1	29	PDB header: transferase/transferase inhibitor Chain: B: PDB Molecule: phospholipase c-gamma-1; PDBTitle: crystal structure of activated receptor tyrosine kinase in complex2 with substrates
38	d1a81a1	Alignment	not modelled	99.1	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
39	c2el8A	Alignment	not modelled	99.1	17	PDB header: signaling protein Chain: A: PDB Molecule: signal-transducing adaptor protein 2; PDBTitle: solution structure of the human stap2 sh2 domain
40	d2izva2	Alignment	not modelled	99.1	20	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
41	d1rpya	Alignment	not modelled	99.1	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
42	d2oqla2	Alignment	not modelled	99.1	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
43	d1k9aa2	Alignment	not modelled	99.1	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
44	d2eyva1	Alignment	not modelled	99.1	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
45	c2gsbA	Alignment	not modelled	99.0	18	PDB header: signaling protein Chain: A: PDB Molecule: ras gtpase-activating protein 1; PDBTitle: solution structure of the second sh2 domain of human ras2 gtpase-activating protein 1
46	c1k9aB	Alignment	not modelled	99.0	21	PDB header: transferase Chain: B: PDB Molecule: carboxyl-terminal src kinase; PDBTitle: crystal structure analysis of full-length carboxyl-terminal2 src kinase at 2.5 a resolution
47	c2dlyA	Alignment	not modelled	99.0	20	PDB header: transferase Chain: A: PDB Molecule: fyn-related kinase; PDBTitle: solution structure of the sh2 domain of murine fyn-related2 kinase
48	d1rjaa	Alignment	not modelled	99.0	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
49	c2izvA	Alignment	not modelled	99.0	20	PDB header: transcription Chain: A: PDB Molecule: suppressor of cytokine signaling 4; PDBTitle: crystal structure of socs-4 in complex with elongin-b and2 elongin-c at 2.55a resolution
50	d2c9wa2	Alignment	not modelled	99.0	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
51	c2ysxA	Alignment	not modelled	99.0	20	PDB header: signaling protein Chain: A: PDB Molecule: signaling inositol polyphosphate phosphatase PDBTitle: solution structure of the human ship sh2 domain
52	c1oplA	Alignment	not modelled	99.0	32	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase; PDBTitle: structural basis for the auto-inhibition of c-abl tyrosine2 kinase
53	d1a81e1	Alignment	not modelled	99.0	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
54	d2cs0a1	Alignment	not modelled	99.0	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

55	d1r1qa_	Alignment	not modelled	99.0	18	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
56	c2dlzA_	Alignment	not modelled	99.0	19	PDB header: signaling protein Chain: A: PDB Molecule: protein vav-2; PDBTitle: solution structure of the sh2 domain of human protein vav-2
57	c2hdxB_	Alignment	not modelled	99.0	25	PDB header: signaling protein Chain: B: PDB Molecule: sh2-b ph domain containing signaling mediator 1 PDBTitle: crystal structure of the src homology-2 domain of sh2-b in2 complex with jak2 tyr813 phosphopeptide
58	c1x6cA_	Alignment	not modelled	99.0	24	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
59	c2hmhA_	Alignment	not modelled	99.0	19	PDB header: cytokine regulator Chain: A: PDB Molecule: suppressor of cytokine signaling 3; PDBTitle: crystal structure of socs3 in complex with gp130(ptyr757)2 phosphopeptide.
60	d1a81a2	Alignment	not modelled	99.0	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
61	d1nrva_	Alignment	not modelled	99.0	19	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
62	d1jwoa_	Alignment	not modelled	99.0	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
63	d1a81e2	Alignment	not modelled	99.0	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
64	d1csya_	Alignment	not modelled	99.0	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
65	c2eo3A_	Alignment	not modelled	99.0	28	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of the sh2 domain from human crk-like2 protein
66	c1ka6A_	Alignment	not modelled	99.0	21	PDB header: immune system Chain: A: PDB Molecule: sh2 domain protein 1a; PDBTitle: sap/sh2d1a bound to peptide n-py
67	d1opka2	Alignment	not modelled	99.0	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
68	d1jyra_	Alignment	not modelled	99.0	20	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
69	c2ablA_	Alignment	not modelled	99.0	33	PDB header: transferase Chain: A: PDB Molecule: abl tyrosine kinase; PDBTitle: sh3-sh2 domain fragment of human bcr-abl tyrosine kinase
70	c2lctA_	Alignment	not modelled	99.0	27	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
71	c1rqcC_	Alignment	not modelled	99.0	26	PDB header: transferase/signaling protein Chain: C: PDB Molecule: adaptor protein aps; PDBTitle: crystal structure of the insulin receptor kinase in complex2 with the sh2 domain of aps
72	c2ci8A_	Alignment	not modelled	99.0	23	PDB header: translation Chain: A: PDB Molecule: cytoplasmic protein nck1; PDBTitle: sh2 domain of human nck1 adaptor protein - uncomplexed
73	c1a81E_	Alignment	not modelled	99.0	23	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
74	d2shpa2	Alignment	not modelled	99.0	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
75	d3c7ia1	Alignment	not modelled	98.9	20	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
76	c2dviA_	Alignment	not modelled	98.9	31	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog, PDBTitle: phosphorylated crk-ii
77	d1ayaa_	Alignment	not modelled	98.9	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
78	d1blja_	Alignment	not modelled	98.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
79	d2shpa3	Alignment	not modelled	98.9	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
80	d1i3za_	Alignment	not modelled	98.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
81	c2eehA_	Alignment	not modelled	98.9	20	PDB header: hydrolase Chain: A: PDB Molecule: 1-phosphatidylinositol-4,5-bisphosphate

81	c2evvA	Alignment	not modelled	98.9	20	PDBTitle: solution structure of the second sh2 domain from rat plc2 gamma-2
82	c2augB	Alignment	not modelled	98.9	25	PDB header: signaling protein Chain: B: PDB Molecule: growth factor receptor-bound protein 14; PDBTitle: crystal structure of the grb14 sh2 domain
83	c2eyzA	Alignment	not modelled	98.9	31	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform ii
84	d1lkka	Alignment	not modelled	98.9	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
85	d1pica	Alignment	not modelled	98.9	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
86	d1d4ta	Alignment	not modelled	98.9	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
87	d2qmsa1	Alignment	not modelled	98.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
88	d1qcfa2	Alignment	not modelled	98.9	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
89	c3pfqA	Alignment	not modelled	98.9	37	PDB header: transferase Chain: A: PDB Molecule: protein kinase c beta type; PDBTitle: crystal structure and allosteric activation of protein kinase c beta2 ii
90	d1f2fa	Alignment	not modelled	98.9	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
91	c1y57A	Alignment	not modelled	98.9	30	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: structure of unphosphorylated c-src in complex with an inhibitor
92	c2knoA	Alignment	not modelled	98.8	22	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)
93	d1fu6a	Alignment	not modelled	98.8	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
94	d1cwea	Alignment	not modelled	98.8	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
95	c3mazA	Alignment	not modelled	98.8	15	PDB header: signaling protein Chain: A: PDB Molecule: signal-transducing adaptor protein 1; PDBTitle: crystal structure of the human brdg1/stap-1 sh2 domain in complex with2 the ntal ptyr136 peptide
96	d1qada	Alignment	not modelled	98.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
97	d1g83a2	Alignment	not modelled	98.8	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
98	c1x27F	Alignment	not modelled	98.8	20	PDB header: signaling protein Chain: F: PDB Molecule: proto-oncogene tyrosine-protein kinase lck; PDBTitle: crystal structure of lck sh2-sh3 with sh2 binding site of2 p130cas
99	d1bkla	Alignment	not modelled	98.8	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
100	d1mila	Alignment	not modelled	98.8	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
101	c2kk6A	Alignment	not modelled	98.8	24	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase fer; PDBTitle: solution structure of sh2 domain of proto-oncogene tyrosine-2 protein kinase fer from homo sapiens, northeast structural3 genomics consortium (nesg) target hr3461d
102	d1o48a	Alignment	not modelled	98.8	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
103	c2dcrA	Alignment	not modelled	98.8	21	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase fes/fps; PDBTitle: fully automated solution structure determination of the fes2 sh2 domain
104	c2h8hA	Alignment	not modelled	98.8	30	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: src kinase in complex with a quinazoline inhibitor
105	d1luia	Alignment	not modelled	98.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
106	d1xa6a3	Alignment	not modelled	98.7	63	Fold: Cysteine-rich domain Superfamily: Cysteine-rich domain Family: Protein kinase cysteine-rich domain (cys2, phorbol-binding domain)

107	c3nhnA_	Alignment	not modelled	98.7	22	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase hck; PDBTitle: crystal structure of the src-family kinase hck sh3-sh2-linker2 regulatory region
108	c2ekxA_	Alignment	not modelled	98.7	21	PDB header: signaling protein Chain: A: PDB Molecule: cytoplasmic tyrosine-protein kinase bmx; PDBTitle: solution structure of the human bmx sh2 domain
109	c2cr4A_	Alignment	not modelled	98.7	17	PDB header: signaling protein Chain: A: PDB Molecule: sh3 domain-binding protein 2; PDBTitle: solution structure of the sh2 domain of human sh3bp2 protein
110	c3gxxB_	Alignment	not modelled	98.7	18	PDB header: transcription Chain: B: PDB Molecule: transcription elongation factor spt6; PDBTitle: structure of the sh2 domain of the candida glabrata2 transcription elongation factor spt6, crystal form b
111	c2eliA_	Alignment	not modelled	98.7	29	PDB header: transferase Chain: A: PDB Molecule: protein kinase c alpha type; PDBTitle: solution structure of the second phorbol2 esters/diacylglycerol binding domain of human protein3 kinase c alpha type
112	c2c0iA_	Alignment	not modelled	98.7	28	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase hck; PDBTitle: src family kinase hck with bound inhibitor a-420983
113	c2eyyA_	Alignment	not modelled	98.7	31	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform i
114	c2ge9A_	Alignment	not modelled	98.7	24	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase btk; PDBTitle: solution structures of the sh2 domain of bruton's tyrosine2 kinase
115	c2dm0A_	Alignment	not modelled	98.7	18	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
116	c4b6dA_	Alignment	not modelled	98.6	29	PDB header: signaling protein Chain: A: PDB Molecule: rac gtpase-activating protein 1; PDBTitle: structure of the atypical c1 domain of mgcracgap
117	d2fcia1	Alignment	not modelled	98.6	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
118	c2e73A_	Alignment	not modelled	98.6	32	PDB header: transferase Chain: A: PDB Molecule: protein kinase c gamma type; PDBTitle: solution structure of the phorbol esters/diacylglycerol2 binding domain of protein kinase c gamma
119	d1tbna_	Alignment	not modelled	98.6	29	Fold: Cysteine-rich domain Superfamily: Cysteine-rich domain Family: Protein kinase cysteine-rich domain (cys2, phorbol-binding domain)
120	c1g83A_	Alignment	not modelled	98.6	26	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase fyn; PDBTitle: crystal structure of fyn sh3-sh2