
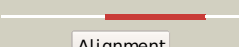

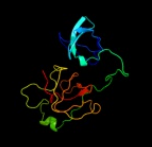

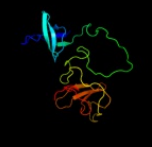
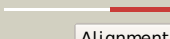

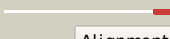

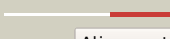


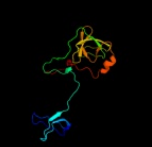





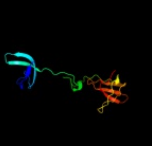



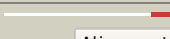






Phyre2

Email	l.a.kelley@imperial.ac.uk
Description	O43639
Date	Sat Jun 16 10:26:44 BST 2012
Unique Job ID	a7877ab1fb898e17

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2fo0A_	 Alignment		100.0	30	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
2	c1k9aB_	 Alignment		100.0	29	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
3	c1oplA_	 Alignment		100.0	31	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase; PDBTitle: structural basis for the auto-inhibition of c-abl tyrosine2 kinase
4	c1y57A_	 Alignment		100.0	34	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: structure of unphosphorylated c-src in complex with an inhibitor
5	c2ablA_	 Alignment		100.0	31	PDB header: transferase Chain: A: PDB Molecule: abl tyrosine kinase; PDBTitle: sh3-sh2 domain fragment of human bcr-abl tyrosine kinase
6	c3nhnA_	 Alignment		100.0	34	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
7	c2c0iA_	 Alignment		100.0	36	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase hck; PDBTitle: src family kinase hck with bound inhibitor a-420983
8	c1x27F_	 Alignment		100.0	35	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
9	c2h8hA_	 Alignment		100.0	35	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: src kinase in complex with a quinazoline inhibitor
10	c1g83A_	 Alignment		100.0	33	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase fyn; PDBTitle: crystal structure of fyn sh3-sh2
11	c1griA_	 Alignment		100.0	26	PDB header: signal transduction adaptor Chain: A: PDB Molecule: growth factor bound protein 2; PDBTitle: grb2

12	c2l3sA_	 Alignment		100.0	21	PDB header: structural protein Chain: A; PDB Molecule: autoinhibited crk protein; PDBTitle: structure of the autoinhibited crk
13	c2eyzA_	 Alignment		100.0	23	PDB header: signaling protein Chain: A; PDB Molecule: v-crak sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform ii
14	c2b3oA_	 Alignment		100.0	24	PDB header: hydrolase Chain: A; PDB Molecule: tyrosine-protein phosphatase, non-receptor type PDBTitle: crystal structure of human tyrosine phosphatase shp-1
15	c2ci8A_	 Alignment		100.0	84	PDB header: translation Chain: A; PDB Molecule: cytoplasmic protein nck1; PDBTitle: sh2 domain of human nck1 adaptor protein - uncomplexed
16	c3ps5A_	 Alignment		100.0	24	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
17	c1ng2A_	 Alignment		100.0	22	PDB header: oxidoreductase activator Chain: A; PDB Molecule: neutrophil cytosolic factor 1; PDBTitle: structure of autoinhibited p47phox
18	c2eo6A_	 Alignment		100.0	22	PDB header: signaling protein Chain: A; PDB Molecule: b-cell linker protein; PDBTitle: solution structure of the sh2 domain from mouse b-cell2 linker protein blk
19	c2shpA_	 Alignment		100.0	24	PDB header: tyrosine phosphatase Chain: A; PDB Molecule: shp-2; PDBTitle: tyrosine phosphatase shp-2
20	c1ov3A_	 Alignment		100.0	27	PDB header: oxidoreductase activator Chain: A; PDB Molecule: neutrophil cytosol factor 1; PDBTitle: structure of the p22phox-p47phox complex
21	c2eo3A_	 Alignment	not modelled	100.0	27	PDB header: signaling protein Chain: A; PDB Molecule: crk-like protein; PDBTitle: solution structure of the sh2 domain from human crk-like2 protein
22	d2shpa2	 Alignment	not modelled	99.9	34	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
23	c1x6cA_	 Alignment	not modelled	99.9	34	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
24	d3c7ia1	 Alignment	not modelled	99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
25	c2qsba_	 Alignment	not modelled	99.9	25	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
26	c3hizB_	 Alignment	not modelled	99.9	26	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
27	c2crhA_	 Alignment	not modelled	99.9	26	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
28	d1mila_	 Alignment	not modelled	99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

29	c2dlzA	Alignment	not modelled	99.9	27	PDB header: signaling protein Chain: A: PDB Molecule: protein vav-2; PDBTitle: solution structure of the sh2 domain of human protein vav-2
30	c2eobA	Alignment	not modelled	99.9	26	PDB header: hydrolase Chain: A: PDB Molecule: 1-phosphatidylinositol-4,5-bisphosphate PDBTitle: solution structure of the second sh2 domain from rat plc2 gamma-2
31	d1ayaa	Alignment	not modelled	99.9	35	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
32	c2y3aB	Alignment	not modelled	99.9	26	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
33	c2dlyA	Alignment	not modelled	99.9	29	PDB header: transferase Chain: A: PDB Molecule: fyn-related kinase; PDBTitle: solution structure of the sh2 domain of murine fyn-related2 kinase
34	d2oq1a1	Alignment	not modelled	99.9	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
35	c3gqiB	Alignment	not modelled	99.9	31	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
36	d1pica	Alignment	not modelled	99.9	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
37	d1fhsa	Alignment	not modelled	99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
38	c2kk6A	Alignment	not modelled	99.9	26	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
39	c2vifa	Alignment	not modelled	99.9	25	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
40	c2lcta	Alignment	not modelled	99.9	26	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
41	c2oq1A	Alignment	not modelled	99.9	27	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: tandem sh2 domains of zap-70 with 19-mer zeta1 peptide
42	d1qada	Alignment	not modelled	99.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
43	c2dcrA	Alignment	not modelled	99.9	25	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
44	d1nrva	Alignment	not modelled	99.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
45	d1a81e1	Alignment	not modelled	99.9	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
46	d2oq1a2	Alignment	not modelled	99.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
47	d2izva2	Alignment	not modelled	99.9	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
48	d1jwoa	Alignment	not modelled	99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
49	d1a81e2	Alignment	not modelled	99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
50	c2c9wA	Alignment	not modelled	99.9	32	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
51	d1rjaa	Alignment	not modelled	99.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
52	c2ozoA	Alignment	not modelled	99.9	27	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: autoinhibited intact human zap-70
53	d2shpa3	Alignment	not modelled	99.9	38	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
54	d1jyra	Alignment	not modelled	99.9	35	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

55	c1ka6A	Alignment	not modelled	99.9	23	PDB header: immune system Chain: A: PDB Molecule: sh2 domain protein 1a; PDBTitle: sap/sh2d1a bound to peptide n-py
56	d1k9aa2	Alignment	not modelled	99.9	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
57	d1a81a2	Alignment	not modelled	99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
58	c2ysxA	Alignment	not modelled	99.9	31	PDB header: signaling protein Chain: A: PDB Molecule: signaling inositol polyphosphate phosphatase PDBTitle: solution structure of the human ship sh2 domain
59	d1a81a1	Alignment	not modelled	99.9	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
60	d1lkka	Alignment	not modelled	99.9	36	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
61	c2el8A	Alignment	not modelled	99.9	21	PDB header: signaling protein Chain: A: PDB Molecule: signal-transducing adaptor protein 2; PDBTitle: solution structure of the human stap2 sh2 domain
62	d1i3za	Alignment	not modelled	99.9	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
63	d1r1qa	Alignment	not modelled	99.9	35	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
64	d1fu6a	Alignment	not modelled	99.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
65	d2eyva1	Alignment	not modelled	99.9	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
66	c1a81E	Alignment	not modelled	99.9	16	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
67	d1d4ta	Alignment	not modelled	99.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
68	d2fcia1	Alignment	not modelled	99.9	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
69	d1g83a2	Alignment	not modelled	99.9	34	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
70	d1opka2	Alignment	not modelled	99.9	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
71	d1csya	Alignment	not modelled	99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
72	c2izvA	Alignment	not modelled	99.9	27	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
73	c2ge9A	Alignment	not modelled	99.9	29	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase btk; PDBTitle: solution structures of the sh2 domain of bruton's tyrosine2 kinase
74	d1blja	Alignment	not modelled	99.9	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
75	d2c9wa2	Alignment	not modelled	99.9	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
76	d1o48a	Alignment	not modelled	99.9	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
77	c2ekxA	Alignment	not modelled	99.9	28	PDB header: signaling protein Chain: A: PDB Molecule: cytoplasmic tyrosine-protein kinase bmx; PDBTitle: solution structure of the human bmx sh2 domain
78	c2hnhA	Alignment	not modelled	99.9	26	PDB header: cytokine regulator Chain: A: PDB Molecule: suppressor of cytokine signaling 3; PDBTitle: crystal structure of socs3 in complex with gp130(pyr757)2 phosphopeptide.
79	d2qmsa1	Alignment	not modelled	99.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
80	c2knoA	Alignment	not modelled	99.9	27	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)
81	d1rpya	Alignment	not modelled	99.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

82	d1luia_	Alignment	not modelled	99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
83	d1xa6a2	Alignment	not modelled	99.9	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
84	c1rqgC_	Alignment	not modelled	99.9	23	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
85	c3mazA_	Alignment	not modelled	99.9	20	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 ntl ptyr136 peptide
86	d1f2fa_	Alignment	not modelled	99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
87	d1bkla_	Alignment	not modelled	99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
88	d1qcfa2	Alignment	not modelled	99.9	36	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
89	d2cs0a1	Alignment	not modelled	99.9	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
90	c2cr4A_	Alignment	not modelled	99.9	23	PDB header: signaling protein Chain: A: PDB Molecule: sh3 domain-binding protein 2; PDBTitle: solution structure of the sh2 domain of human sh3bp2 protein
91	d1cwea_	Alignment	not modelled	99.9	38	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
92	c2dm0A_	Alignment	not modelled	99.9	25	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
93	c2dvjA_	Alignment	not modelled	99.8	26	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog, PDBTitle: phosphorylated crk-ii
94	c3gxxB_	Alignment	not modelled	99.8	25	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
95	c3qwya_	Alignment	not modelled	99.8	24	PDB header: signaling protein Chain: A: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2
96	c3qwxX_	Alignment	not modelled	99.8	25	PDB header: signaling protein Chain: X: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2 1-174
97	c2eyyA_	Alignment	not modelled	99.8	29	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform i
98	c2yt6A_	Alignment	not modelled	99.8	33	PDB header: cell cycle Chain: A: PDB Molecule: adult male urinary bladder cdna, riken full- PDBTitle: solution structure of the sh3_1 domain of yamaguchi sarcoma2 viral (v-yes) oncogene homolog 1
99	c2jw4A_	Alignment	not modelled	99.8	72	PDB header: signaling protein Chain: A: PDB Molecule: cytoplasmic protein nck1; PDBTitle: nmr solution structure of the n-terminal sh3 domain of2 human nckalpa
100	c1mv3A_	Alignment	not modelled	99.8	27	PDB header: endocytosis/exocytosis Chain: A: PDB Molecule: myc box dependent interacting protein 1; PDBTitle: nmr structure of the tumor suppressor bin1: alternative2 splicing in melanoma and interaction with c-myc
101	c2jxbA_	Alignment	not modelled	99.8	100	PDB header: signaling protein complex Chain: A: PDB Molecule: t-cell surface glycoprotein cd3 epsilon chain, PDBTitle: structure of cd3epsilon-nck2 first sh3 domain complex
102	c3or8A_	Alignment	not modelled	99.8	24	PDB header: transcription Chain: A: PDB Molecule: transcription elongation factor spt6; PDBTitle: a tandem sh2 domain in transcription elongation factor spt6
103	d1ng2a2	Alignment	not modelled	99.8	16	Fold: SH3-like barrel Superfamily: SH3-domain Family: SH3-domain
104	c2dx0B_	Alignment	not modelled	99.8	30	PDB header: hydrolase Chain: B: PDB Molecule: phospholipase c, gamma 2; PDBTitle: crystal structure of the n-terminal sh2 domain of mouse2 phospholipase c-gamma 2
105	c1wx6A_	Alignment	not modelled	99.8	88	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: cytoplasmic protein nck2; PDBTitle: solution structure of the sh3 domain of the human2 cytoplasmic protein nck2
106	d1udla_	Alignment	not modelled	99.7	34	Fold: SH3-like barrel Superfamily: SH3-domain Family: SH3-domain
107	c2dybA_	Alignment	not modelled	99.7	15	PDB header: oxidoreductase Chain: A: PDB Molecule: neutrophil cytosol factor 4; PDBTitle: the crystal structure of human p40(phox)
108	c2dlbA_	Alignment	not modelled	99.7	17	PDB header: structural protein Chain: A: PDB Molecule: kiaa1783 protein;

108	c2urpA_	Alignment	not modelled	99.7	17	PDBTitle: solution structure of the sh3 domain of human kiaa17832 protein PDB header: protein binding Chain: A; PDB Molecule: engulfment and cell motility protein 1, linker, dedicator
109	c2rqrA_	Alignment	not modelled	99.7	13	PDBTitle: the solution structure of human dock2 sh3 domain - elmo1 peptide2 chimera complex PDB header: transcription Chain: A; PDB Molecule: spt6;
110	c2xp1A_	Alignment	not modelled	99.7	26	PDBTitle: structure of the tandem sh2 domains from antonospora locustae2 transcription elongation factor spt6
111	c2k2mA_	Alignment	not modelled	99.7	33	PDB header: signaling protein Chain: A; PDB Molecule: eps8-like protein 1; PDBTitle: structural basis of pxxdy motif recognition in sh3 binding
112	c2csqA_	Alignment	not modelled	99.7	19	PDB header: endocytosis/exocytosis Chain: A; PDB Molecule: rim binding protein 2; PDBTitle: solution structure of the second sh3 domain of human rim-2 binding protein 2
113	c2cudA_	Alignment	not modelled	99.7	20	PDB header: signaling protein Chain: A; PDB Molecule: src-like-adapter; PDBTitle: solution structure of the sh3 domain of the human src-like2 adpoter protein (slap)
114	c2cubA_	Alignment	not modelled	99.7	20	PDB header: signaling protein Chain: A; PDB Molecule: cytoplasmic protein nck1; PDBTitle: solution structure of the sh3 domain of the human2 cytoplasmic protein nck1
115	c1xa6A_	Alignment	not modelled	99.7	23	PDB header: signaling protein Chain: A; PDB Molecule: beta2-chimaerin; PDBTitle: crystal structure of the human beta2-chimaerin
116	d1uffa_	Alignment	not modelled	99.7	18	Fold: SH3-like barrel Superfamily: SH3-domain Family: SH3-domain
117	c2egeA_	Alignment	not modelled	99.7	19	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: uncharacterized protein kiaa1666; PDBTitle: solution structure of the third sh3 domain from human2 kiaa1666 protein
118	c2ysqA_	Alignment	not modelled	99.7	19	PDB header: signaling protein Chain: A; PDB Molecule: rho guanine nucleotide exchange factor 9; PDBTitle: solution structure of the sh3 domain from rho guanine2 nucleotide exchange factor 9
119	c2yuoA_	Alignment	not modelled	99.7	18	PDB header: signaling protein Chain: A; PDB Molecule: run and tbc1 domain containing 3; PDBTitle: solution structure of the sh3 domain of mouse run and tbc12 domain containing 3
120	d1j3ta_	Alignment	not modelled	99.7	23	Fold: SH3-like barrel Superfamily: SH3-domain Family: SH3-domain