














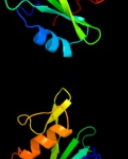
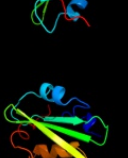


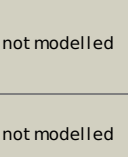


Phyre2

Email	I.a.kelley@imperial.ac.uk
Description	Q7KV33
Date	Tue Jan 22 11:34:33 GMT 2013
Unique Job ID	d95adb05d880fe9d

Detailed template information

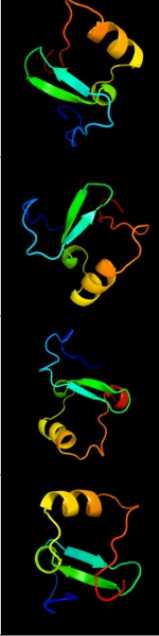
#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2eo6A_	 Alignment		99.9	31	PDB header: signaling protein Chain: A: PDB Molecule: b-cell linker protein; PDBTitle: solution structure of the sh2 domain from mouse b-cell12 linker protein blk
2	c2hdxB_	 Alignment		99.8	27	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
3	c2eo3A_	 Alignment		99.8	27	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of the sh2 domain from human crk-like2 protein
4	c3hizB_	 Alignment		99.8	29	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
5	d1mila_	 Alignment		99.8	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
6	d2shpa2	 Alignment		99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
7	d1fhsa_	 Alignment		99.8	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
8	c2qsbA_	 Alignment		99.8	30	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
9	c2hnhA_	 Alignment		99.8	24	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.
10	c2eobA_	 Alignment		99.8	28	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
11	c3gqiB_	 Alignment		99.8	28	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

12	c2kk6A	Alignment		99.8	33	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
13	d1pica	Alignment		99.8	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
14	d1qada	Alignment		99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
15	c2vifa	Alignment		99.8	35	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
16	c2crhA	Alignment		99.8	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
17	d3c7ia1	Alignment		99.8	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
18	d1a81e2	Alignment		99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
19	c2dlza	Alignment		99.8	17	PDB header: signaling protein Chain: A: PDB Molecule: protein vav-2; PDBTitle: solution structure of the sh2 domain of human protein vav-2
20	c2lqnA	Alignment		99.8	25	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of crk1
21	c1x6cA	Alignment	not modelled	99.8	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
22	c2c9wA	Alignment	not modelled	99.8	27	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
23	d1r1qa	Alignment	not modelled	99.8	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
24	d1ayaa	Alignment	not modelled	99.7	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
25	d1luia	Alignment	not modelled	99.7	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
26	c2ci8A	Alignment	not modelled	99.7	36	PDB header: translation Chain: A: PDB Molecule: cytoplasmic protein nck1; PDBTitle: sh2 domain of human nck1 adaptor protein - uncomplexed
27	d2shpa3	Alignment	not modelled	99.7	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
28	c2dcrA	Alignment	not modelled	99.7	34	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

29	d2oq1a1	Alignment	not modelled	99.7	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
30	d1k9aa2	Alignment	not modelled	99.7	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
31	c2dlyA	Alignment	not modelled	99.7	33	PDB header: transferase Chain: A: PDB Molecule: fyn-related kinase; PDBTitle: solution structure of the sh2 domain of murine fyn-related2 kinase
32	c2izvA	Alignment	not modelled	99.7	19	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
33	c2lctA	Alignment	not modelled	99.7	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
34	d1fu6a	Alignment	not modelled	99.7	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
35	d1csya	Alignment	not modelled	99.7	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
36	c2fo0A	Alignment	not modelled	99.7	33	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
37	d1jwoa	Alignment	not modelled	99.7	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
38	c1k9aB	Alignment	not modelled	99.7	27	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
39	d1lkka	Alignment	not modelled	99.7	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
40	d2eyva1	Alignment	not modelled	99.7	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
41	c1ka6A	Alignment	not modelled	99.7	27	PDB header: immune system Chain: A: PDB Molecule: sh2 domain protein 1a; PDBTitle: sap/sh2d1a bound to peptide n-py
42	c2knoA	Alignment	not modelled	99.7	29	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)
43	c2y3aB	Alignment	not modelled	99.7	27	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
44	d1a81a1	Alignment	not modelled	99.7	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
45	d1opka2	Alignment	not modelled	99.7	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
46	d2izva2	Alignment	not modelled	99.7	19	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
47	d1a81e1	Alignment	not modelled	99.7	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
48	d2oq1a2	Alignment	not modelled	99.7	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
49	c2oq1A	Alignment	not modelled	99.7	28	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: tandem sh2 domains of zap-70 with 19-mer zeta1 peptide
50	d1a81a2	Alignment	not modelled	99.7	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
51	c2shpA	Alignment	not modelled	99.7	26	PDB header: tyrosine phosphatase Chain: A: PDB Molecule: shp-2; PDBTitle: tyrosine phosphatase shp-2
52	c2el8A	Alignment	not modelled	99.7	16	PDB header: signaling protein Chain: A: PDB Molecule: signal-transducing adaptor protein 2; PDBTitle: solution structure of the human stap2 sh2 domain
53	c2ekxA	Alignment	not modelled	99.7	31	PDB header: signaling protein Chain: A: PDB Molecule: cytoplasmic tyrosine-protein kinase bmx; PDBTitle: solution structure of the human bmx sh2 domain
54	d1d4ta	Alignment	not modelled	99.7	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
						Fold: SH2-like

55	d1blja_	Alignment	not modelled	99.7	30	Superfamily: SH2 domain Family: SH2 domain
56	d1rjaa_	Alignment	not modelled	99.7	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
57	d2cs0a1	Alignment	not modelled	99.7	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
58	d2c9wa2	Alignment	not modelled	99.7	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
59	d1nrva_	Alignment	not modelled	99.7	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
60	d1g83a2	Alignment	not modelled	99.7	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
61	c2ysxA_	Alignment	not modelled	99.7	34	PDB header: signaling protein Chain: A; PDB Molecule: signaling inositol polyphosphate phosphatase PDBTitle: solution structure of the human ship sh2 domain
62	c2ablA_	Alignment	not modelled	99.7	32	PDB header: transferase Chain: A; PDB Molecule: abl tyrosine kinase; PDBTitle: sh3-sh2 domain fragment of human bcr-abl tyrosine kinase
63	d2fcia1	Alignment	not modelled	99.7	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
64	c2qe9A_	Alignment	not modelled	99.7	32	PDB header: transferase Chain: A; PDB Molecule: tyrosine-protein kinase btk; PDBTitle: solution structures of the sh2 domain of bruton's tyrosine2 kinase
65	d1f2fa_	Alignment	not modelled	99.7	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
66	d1i3za_	Alignment	not modelled	99.7	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
67	d1qcfa2	Alignment	not modelled	99.7	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
68	d1jyra_	Alignment	not modelled	99.7	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
69	c2augB_	Alignment	not modelled	99.7	25	PDB header: signaling protein Chain: B; PDB Molecule: growth factor receptor-bound protein 14; PDBTitle: crystal structure of the grb14 sh2 domain
70	d1bkla_	Alignment	not modelled	99.7	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
71	d1xa6a2	Alignment	not modelled	99.7	19	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
72	c1x27F_	Alignment	not modelled	99.7	29	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 of p130cas
73	c3mazA_	Alignment	not modelled	99.7	19	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 with the ntal tyr136 peptide
74	c1y57A_	Alignment	not modelled	99.7	28	PDB header: transferase Chain: A; PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: structure of unphosphorylated c-src in complex with an inhibitor
75	d1o48a_	Alignment	not modelled	99.7	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
76	c2h8hA_	Alignment	not modelled	99.7	28	PDB header: transferase Chain: A; PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: src kinase in complex with a quinazoline inhibitor
77	c1oplA_	Alignment	not modelled	99.6	33	PDB header: transferase Chain: A; PDB Molecule: proto-oncogene tyrosine-protein kinase; PDBTitle: structural basis for the auto-inhibition of c-abl tyrosine2 kinase
78	d1rpya_	Alignment	not modelled	99.6	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
79	c2b3oA_	Alignment	not modelled	99.6	25	PDB header: hydrolase Chain: A; PDB Molecule: tyrosine-protein phosphatase, non-receptor type PDBTitle: crystal structure of human tyrosine phosphatase shp-1
80	c1rqqC_	Alignment	not modelled	99.6	29	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
81	c3nhnA_	Alignment	not modelled	99.6	30	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
82	d1cwea_	Alignment	not modelled	99.6	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
83	d2qmsa1	Alignment	not modelled	99.6	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
84	c2ozoA_	Alignment	not modelled	99.6	29	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: autoinhibited intact human zap-70
85	c1a81E_	Alignment	not modelled	99.6	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
86	c3gxxB_	Alignment	not modelled	99.6	21	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
87	c2dm0A_	Alignment	not modelled	99.6	33	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
88	c2eyyA_	Alignment	not modelled	99.6	27	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform i
89	c4fl2A_	Alignment	not modelled	99.6	24	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase syk; PDBTitle: structural and biophysical characterization of the syk activation2 switch
90	c2c0iA_	Alignment	not modelled	99.6	30	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase hck; PDBTitle: src family kinase hck with bound inhibitor a-420983
91	c2cr4A_	Alignment	not modelled	99.6	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
92	c2dvjA_	Alignment	not modelled	99.6	30	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog, PDBTitle: phosphorylated crk-ii
93	c2eyzA_	Alignment	not modelled	99.6	26	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform ii
94	c3ps5A_	Alignment	not modelled	99.6	28	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
95	c1g83A_	Alignment	not modelled	99.6	32	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase fyn; PDBTitle: crystal structure of fyn sh3-sh2
96	c3qwxX_	Alignment	not modelled	99.5	29	PDB header: signaling protein Chain: X: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2 1-174
97	c3qwyA_	Alignment	not modelled	99.5	29	PDB header: signaling protein Chain: A: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2
98	d1luura3	Alignment	not modelled	99.4	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
99	c3or8A_	Alignment	not modelled	99.4	23	PDB header: transcription Chain: A: PDB Molecule: transcription elongation factor spt6; PDBTitle: a tandem sh2 domain in transcription elongation factor spt6
100	c1xa6A_	Alignment	not modelled	99.3	19	PDB header: signaling protein Chain: A: PDB Molecule: beta2-chimaerin; PDBTitle: crystal structure of the human beta2-chimaerin
101	c2xp1A_	Alignment	not modelled	99.3	28	PDB header: transcription Chain: A: PDB Molecule: spt6; PDBTitle: structure of the tandem sh2 domains from antonospora locustae2 transcription elongation factor spt6
102	c2dx0B_	Alignment	not modelled	99.3	33	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
103	d1bf5a3	Alignment	not modelled	99.2	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
104	d1bg1a3	Alignment	not modelled	99.1	19	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
105	c3cblA_	Alignment	not modelled	98.8	40	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase fes/fps; PDBTitle: crystal structure of human feline sarcoma viral oncogene homologue (v-2 fes) in complex with staurosporine and a consensus peptide
106	c1yv1B_	Alignment	not modelled	97.5	29	PDB header: signaling protein Chain: B: PDB Molecule: signal transducer and activator of transcription PDBTitle: structure of unphosphorylated stat1
107	c1bf5A_	Alignment	not modelled	97.3	28	PDB header: gene regulation/dna Chain: A: PDB Molecule: signal transducer and activator of

107	c1v9A	Alignment	not modelled	97.3	28	transcription PDBTitle: tyrosine phosphorylated stat-1/dna complex PDB header: signal transduction
108	c1uusA	Alignment	not modelled	97.3	24	Chain: A; PDB Molecule: stat protein; PDBTitle: structure of an activated dictyostelium stat in its2 dna-unbound form
109	c2cblA	Alignment	not modelled	96.8	22	PDB header: complex (proto-oncogene/peptide) Chain: A; PDB Molecule: proto-oncogene cbl; PDBTitle: n-terminal domain of cbl in complex with its binding site2 on zap-70
110	c3bunB	Alignment	not modelled	96.7	22	PDB header: ligase/signaling protein Chain: B; PDB Molecule: e3 ubiquitin-protein ligase cbl; PDBTitle: crystal structure of c-cbl-tkb domain complexed with its2 binding motif in sprouty4
111	c1y1uA	Alignment	not modelled	96.3	23	PDB header: signaling protein Chain: A; PDB Molecule: signal transducer and activator of transcription 5a; PDBTitle: structure of unphosphorylated stat5a
112	c1bg1A	Alignment	not modelled	95.9	26	PDB header: transcription/dna Chain: A; PDB Molecule: protein (transcription factor stat3b); PDBTitle: transcription factor stat3b/dna complex
113	c2vpdA	Alignment		95.4	28	PDB header: gene regulation Chain: A; PDB Molecule: pygopus homolog 1; PDBTitle: decoding of methylated histone h3 tail by the pygo-bcl9 wnt2 signaling complex
114	c3lqiA	Alignment		94.7	24	PDB header: transferase Chain: A; PDB Molecule: ml1 phd3-bromo; PDBTitle: crystal structure of ml1 phd3-bromo complexed with h3(1-9)k4me22 peptide
115	c2kyuA	Alignment		94.7	20	PDB header: transferase Chain: A; PDB Molecule: histone-lysine n-methyltransferase ml1; PDBTitle: the solution structure of the phd3 finger of ml1
116	c2xb1A	Alignment		94.2	28	PDB header: transcription Chain: A; PDB Molecule: pygopus homolog 2, b-cell cll/lymphoma 9-like protein; PDBTitle: crystal structure of the human pygo2 phd finger in complex with the2 b9l hd1 domain
117	c3cwgA	Alignment		not modelled	93.0	30
118	d1wepa	Alignment	not modelled	92.1	31	Fold: FYVE/PHD zinc finger Superfamily: FYVE/PHD zinc finger Family: PHD domain
119	d1weva	Alignment	not modelled	89.5	26	Fold: FYVE/PHD zinc finger Superfamily: FYVE/PHD zinc finger Family: PHD domain
120	c2f6nA	Alignment	not modelled	88.0	22	PDB header: transcription Chain: A; PDB Molecule: bromodomain phd finger transcription factor; PDBTitle: crystal structure of phd finger-linker-bromodomain fragment2 of human bptf in the free form