

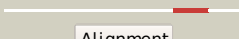

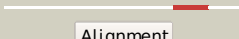

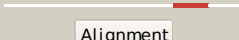

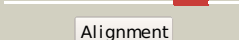



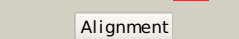

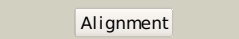

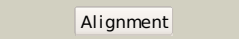
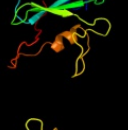










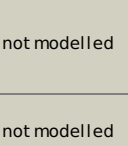


Phyre2

Email	I.a.kelley@imperial.ac.uk
Description	Q9VYM1
Date	Tue Jan 22 11:43:10 GMT 2013
Unique Job ID	0718478ff70c60d8

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2eo6A_	 Alignment		99.9	32	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
2	c2hdxB_	 Alignment		99.9	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 ptyr813 phosphopeptide
3	c2eo3A_	 Alignment		99.9	29	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of the sh2 domain from human crk-like2 protein
4	c2gsbA_	 Alignment		99.9	28	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
5	d1mila_	 Alignment		99.9	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
6	c2lqnA_	 Alignment		99.9	25	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of crkl
7	c2dcrA_	 Alignment		99.9	32	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
8	c2kk6A_	 Alignment		99.9	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
9	c2hnhA_	 Alignment		99.9	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	d1qada_	 Alignment		99.9	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
11	d1fhsa_	 Alignment		99.9	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

12	d2shpa2	Alignment		99.9	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
13	d1pica	Alignment		99.9	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
14	c2c9wA	Alignment		99.8	28	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
15	c1x6cA	Alignment		99.8	28	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
16	d3c7ia1	Alignment		99.8	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
17	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
18	d1ayaa	Alignment		99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
19	c3gqiB	Alignment		99.8	21	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
20	c2eobA	Alignment		99.8	29	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
21	c3hizB	Alignment	not modelled	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
22	d1r1qa	Alignment	not modelled	99.8	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
23	c2knoA	Alignment	not modelled	99.8	25	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)
24	c2crhA	Alignment	not modelled	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
25	c2ci8A	Alignment	not modelled	99.8	33	PDB header: translation Chain: A: PDB Molecule: cytoplasmic protein nck1; PDBTitle: sh2 domain of human nck1 adaptor protein - uncomplexed
26	d1a81e2	Alignment	not modelled	99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
27	c2vifA	Alignment	not modelled	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
28	d2shpa3	Alignment	not modelled	99.8	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

29	c2izvA_	Alignment	not modelled	99.8	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
30	c2lctA_	Alignment	not modelled	99.8	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
31	d2oq1a1	Alignment	not modelled	99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
32	c1ka6A_	Alignment	not modelled	99.8	27	PDB header: immune system Chain: A: PDB Molecule: sh2 domain protein 1a; PDBTitle: sap/sh2d1a bound to peptide n-py
33	d1fu6a_	Alignment	not modelled	99.8	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
34	d1blja_	Alignment	not modelled	99.8	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
35	c2shpA_	Alignment	not modelled	99.8	26	PDB header: tyrosine phosphatase Chain: A: PDB Molecule: shp-2; PDBTitle: tyrosine phosphatase shp-2
36	d1luia_	Alignment	not modelled	99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
37	d2izva2	Alignment	not modelled	99.8	17	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
38	c2dlyA_	Alignment	not modelled	99.8	33	PDB header: transferase Chain: A: PDB Molecule: fyn-related kinase; PDBTitle: solution structure of the sh2 domain of murine fyn-related2 kinase
39	d2cs0a1	Alignment	not modelled	99.8	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
40	d2fcia1	Alignment	not modelled	99.8	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
41	d1k9aa2	Alignment	not modelled	99.8	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
42	d1lkka_	Alignment	not modelled	99.8	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
43	d1opka2	Alignment	not modelled	99.8	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
44	d1a81a2	Alignment	not modelled	99.8	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
45	c2fo0A_	Alignment	not modelled	99.8	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
46	d2eyva1	Alignment	not modelled	99.8	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
47	d1g83a2	Alignment	not modelled	99.8	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
48	d2c9wa2	Alignment	not modelled	99.8	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
49	d1csya_	Alignment	not modelled	99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
50	c2ablA_	Alignment	not modelled	99.8	32	PDB header: transferase Chain: A: PDB Molecule: abl tyrosine kinase; PDBTitle: sh3-sh2 domain fragment of human bcr-abl tyrosine kinase
51	c2y3aB_	Alignment	not modelled	99.8	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
52	c2el8A_	Alignment	not modelled	99.8	19	PDB header: signaling protein Chain: A: PDB Molecule: signal-transducing adaptor protein 2; PDBTitle: solution structure of the human stap2 sh2 domain
53	c2ysxA_	Alignment	not modelled	99.8	34	PDB header: signaling protein Chain: A: PDB Molecule: signaling inositol polyphosphate phosphatase PDBTitle: solution structure of the human ship sh2 domain
54	d1d4ta_	Alignment	not modelled	99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
55	d1rjaa_	Alignment	not modelled	99.8	29	Fold: SH2-like Superfamily: SH2 domain

					Family:SH2 domain
56	d1a81e1	Alignment	not modelled	99.8	23 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
57	d1nrva	Alignment	not modelled	99.8	23 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
58	d1a81a1	Alignment	not modelled	99.8	23 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
59	d1jwoa	Alignment	not modelled	99.8	26 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
60	c2ekxA	Alignment	not modelled	99.8	31 PDB header: signaling protein Chain: A: PDB Molecule: cytoplasmic tyrosine-protein kinase bmx; PDBTitle: solution structure of the human bmx sh2 domain
61	d2oq1a2	Alignment	not modelled	99.8	32 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
62	c1k9aB	Alignment	not modelled	99.8	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
63	c2ge9A	Alignment	not modelled	99.8	33 PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase btk; PDBTitle: solution structures of the sh2 domain of bruton's tyrosine2 kinase
64	c2oq1A	Alignment	not modelled	99.8	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
65	c1x27F	Alignment	not modelled	99.8	30 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
66	c2augB	Alignment	not modelled	99.8	25 PDB header: signaling protein Chain: B: PDB Molecule: growth factor receptor-bound protein 14; PDBTitle: crystal structure of the grb14 sh2 domain
67	d1o48a	Alignment	not modelled	99.8	27 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
68	d1f2fa	Alignment	not modelled	99.8	27 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
69	d1qcfa2	Alignment	not modelled	99.8	30 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
70	d1bkla	Alignment	not modelled	99.8	27 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
71	d1i3za	Alignment	not modelled	99.8	27 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
72	d1xa6a2	Alignment	not modelled	99.8	19 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
73	c1y57A	Alignment	not modelled	99.8	29 PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: structure of unphosphorylated c-src in complex with an inhibitor
74	d1jyra	Alignment	not modelled	99.7	30 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
75	c2dm0A	Alignment	not modelled	99.7	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
76	d1rpya	Alignment	not modelled	99.7	26 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
77	c1oplA	Alignment	not modelled	99.7	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	c3nhnA	Alignment	not modelled	99.7	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
79	d1cwea	Alignment	not modelled	99.7	31 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
80	d2qmsa1	Alignment	not modelled	99.7	28 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
81	c1rqqC	Alignment	not modelled	99.7	28 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 PDB header: transferase

82	c2h8hA	Alignment	not modelled	99.7	28	Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: src kinase in complex with a quinazoline inhibitor
83	c2cr4A	Alignment	not modelled	99.7	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
84	c2b3oA	Alignment	not modelled	99.7	26	PDB header: hydrolase Chain: A: PDB Molecule: tyrosine-protein phosphatase, non-receptor type PDBTitle: crystal structure of human tyrosine phosphatase shp-1
85	c2eyyA	Alignment	not modelled	99.7	27	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform i
86	c1a81E	Alignment	not modelled	99.7	27	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
87	c3gxxB	Alignment	not modelled	99.7	19	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
88	c1g83A	Alignment	not modelled	99.7	32	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase fyn; PDBTitle: crystal structure of fyn sh3-sh2
89	c2c0iA	Alignment	not modelled	99.7	31	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase hck; PDBTitle: src family kinase hck with bound inhibitor a-420983
90	c2dviA	Alignment	not modelled	99.7	30	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog, PDBTitle: phosphorylated crk-ii
91	c2eyzA	Alignment	not modelled	99.7	30	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform ii
92	c3mazA	Alignment	not modelled	99.7	18	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
93	c4fi2A	Alignment	not modelled	99.7	25	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase syk; PDBTitle: structural and biophysical characterization of the syk activation2 switch
94	c3ps5A	Alignment	not modelled	99.7	31	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	c2ozoA	Alignment	not modelled	99.6	27	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: autoinhibited intact human zap-70
96	c3qwxX	Alignment	not modelled	99.6	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	27	PDB header: signaling protein Chain: A: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2
98	c3or8A	Alignment	not modelled	99.5	22	PDB header: transcription Chain: A: PDB Molecule: transcription elongation factor spt6; PDBTitle: a tandem sh2 domain in transcription elongation factor spt6
99	c2dx0B	Alignment	not modelled	99.5	31	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
100	d1uura3	Alignment	not modelled	99.5	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
101	d1bg1a3	Alignment	not modelled	99.4	19	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
102	c2xp1A	Alignment	not modelled	99.4	29	PDB header: transcription Chain: A: PDB Molecule: spt6; PDBTitle: structure of the tandem sh2 domains from antonospora locustae2 transcription elongation factor spt6
103	d1bf5a3	Alignment	not modelled	99.3	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
104	c1xa6A	Alignment	not modelled	99.2	20	PDB header: signaling protein Chain: A: PDB Molecule: beta2-chimaerin; PDBTitle: crystal structure of the human beta2-chimaerin
105	c3cblA	Alignment	not modelled	98.9	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	97.9	23	PDB header: signaling protein Chain: B: PDB Molecule: signal transducer and activator of transcription PDBTitle: structure of unphosphorylated stat1
107	c1bf5A	Alignment	not modelled	97.7	26	PDB header: gene regulation/dna Chain: A: PDB Molecule: signal transducer and activator of transcription

						PDBTitle: tyrosine phosphorylated stat-1/dna complex PDB header: signaling protein Chain: A; PDB Molecule: signal transducer and activator of transcription 5a; PDBTitle: structure of unphosphorylated stat5a
108	c1y1uA_	Alignment	not modelled	97.6	19	PDB header: signal transduction Chain: A; PDB Molecule: stat protein; PDBTitle: structure of an activated dictyostelium stat in its2 dna-unbound form
109	c1uusA_	Alignment	not modelled	97.5	24	PDB header: transcription/dna Chain: A; PDB Molecule: protein (transcription factor stat3b); PDBTitle: transcription factor stat3b/dna complex
110	c1bg1A_	Alignment	not modelled	97.4	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
111	c2cblA_	Alignment	not modelled	97.1	20	PDB header: ligase/signaling protein Chain: B; PDB Molecule: e3 ubiquitin-protein ligase cbl; PDBTitle: crystal structure of c-cbl-tnk domain complexed with its2 binding motif in sprouty4
112	c3bunB_	Alignment	not modelled	97.1	20	PDB header: signal transduction adaptor Chain: A; PDB Molecule: growth factor bound protein 2; PDBTitle: grb2
113	c1griA_	Alignment	not modelled	95.1	25	PDB header: transcription Chain: A; PDB Molecule: signal transducer and activator of transcription PDBTitle: unphosphorylated mouse stat3 core fragment
114	c3cwgA_	Alignment	not modelled	94.3	30	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
115	c1fbvA_	Alignment	not modelled	87.1	20	Fold: CO dehydrogenase flavoprotein C-domain-like Superfamily: FAD/NAD-linked reductases, dimerisation (C-terminal) domain Family: FAD/NAD-linked reductases, dimerisation (C-terminal) domain
116	d1h6va3	Alignment	not modelled	60.5	14	Fold: Cupredoxin-like Superfamily: Cupredoxins Family: Multidomain cupredoxins
117	d1gskal	Alignment	not modelled	60.1	17	Fold: Cysteine proteinases Superfamily: Cysteine proteinases Family: Papain-like
118	d1ef7a_	Alignment	not modelled	59.9	25	Fold: Cupredoxin-like Superfamily: Cupredoxins Family: Multidomain cupredoxins
119	d1kv7a1	Alignment	not modelled	58.6	19	PDB header: hydrolase Chain: A; PDB Molecule: ggdef family protein; PDBTitle: adaptor dependent degradation of a cell-cycle regulator reveals2 diversity in substrate architectures
120	c3u2aA_	Alignment	not modelled	53.8	44	