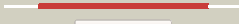



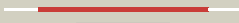























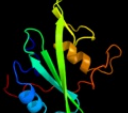

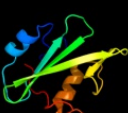


Phyre2

Email	l.a.kelley@imperial.ac.uk
Description	Q64143
Date	Wed Jul 10 14:20:57 BST 2013
Unique Job ID	187dab3a14089fad

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2oq1A_	 Alignment		100.0	25	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: tandem sh2 domains of zap-70 with 19-mer zeta1 peptide
2	c2shpA_	 Alignment		100.0	31	PDB header: tyrosine phosphatase Chain: A: PDB Molecule: shp-2; PDBTitle: tyrosine phosphatase shp-2
3	c2b3oA_	 Alignment		100.0	34	PDB header: hydrolase Chain: A: PDB Molecule: tyrosine-protein phosphatase, non-receptor type PDBTitle: crystal structure of human tyrosine phosphatase shp-1
4	c3ps5A_	 Alignment		100.0	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
5	c4fl2A_	 Alignment		100.0	32	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase syk; PDBTitle: structural and biophysical characterization of the syk activation2 switch
6	c1a81E_	 Alignment		100.0	33	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
7	c2ozoA_	 Alignment		100.0	27	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: autoinhibited intact human zap-70
8	c3gqiB_	 Alignment		100.0	32	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
9	c2y3aB_	 Alignment		100.0	74	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
10	c3hizB_	 Alignment		100.0	82	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
11	d1pica_	 Alignment		99.9	76	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

12	d1qada_	Alignment		99.9	82	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
13	d2oq1a1	Alignment		99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
14	c2crhA_	Alignment		99.9	27	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
15	c2eo6A_	Alignment		99.9	28	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 blnk
16	d2oq1a2	Alignment		99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
17	c2dlzA_	Alignment		99.9	29	PDB header: signaling protein Chain: A: PDB Molecule: protein vav-2; PDBTitle: solution structure of the sh2 domain of human protein vav-2
18	d1a81a1	Alignment		99.9	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
19	c2ablA_	Alignment		99.9	29	PDB header: transferase Chain: A: PDB Molecule: abl tyrosine kinase; PDBTitle: sh3-sh2 domain fragment of human bcr-abl tyrosine kinase
20	d1a81e2	Alignment		99.9	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
21	d1a81a2	Alignment	not modelled	99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
22	d2shpa2	Alignment	not modelled	99.9	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
23	c2fo0A_	Alignment	not modelled	99.9	28	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
24	c3or8A_	Alignment	not modelled	99.9	26	PDB header: transcription Chain: A: PDB Molecule: transcription elongation factor spt6; PDBTitle: a tandem sh2 domain in transcription elongation factor spt6
25	c2lctA_	Alignment	not modelled	99.9	30	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
26	c2dlyA_	Alignment	not modelled	99.9	37	PDB header: transferase Chain: A: PDB Molecule: fyn-related kinase; PDBTitle: solution structure of the sh2 domain of murine fyn-related2 kinase
27	d1a81e1	Alignment	not modelled	99.9	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
28	d1lkka_	Alignment	not modelled	99.9	38	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

29	c2c9wA	Alignment	not modelled	99.9	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	c2eobA	Alignment	not modelled	99.9	36	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	c2lqnA	Alignment	not modelled	99.9	25	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of crkl
32	c2ge9A	Alignment	not modelled	99.9	35	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase btk; PDBTitle: solution structures of the sh2 domain of bruton's tyrosine2 kinase
33	d1csya	Alignment	not modelled	99.9	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
34	d1opka2	Alignment	not modelled	99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
35	c1oplA	Alignment	not modelled	99.9	27	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase; PDBTitle: structural basis for the auto-inhibition of c-abl tyrosine2 kinase
36	d1k9aa2	Alignment	not modelled	99.9	36	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
37	d2izva2	Alignment	not modelled	99.9	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
38	d1nrva	Alignment	not modelled	99.9	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
39	d1jwoa	Alignment	not modelled	99.9	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
40	d1qcfa2	Alignment	not modelled	99.9	39	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
41	d1luia	Alignment	not modelled	99.9	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
42	d1ayaa	Alignment	not modelled	99.9	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
43	d1o48a	Alignment	not modelled	99.9	37	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
44	d1rjaa	Alignment	not modelled	99.9	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
45	c2eo3A	Alignment	not modelled	99.9	28	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of the sh2 domain from human crk-like2 protein
46	d1blja	Alignment	not modelled	99.9	35	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
47	c2vifA	Alignment	not modelled	99.9	30	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
48	c3nhnA	Alignment	not modelled	99.9	37	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
49	d3c7ia1	Alignment	not modelled	99.9	35	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
50	d2qmsa1	Alignment	not modelled	99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
51	c2gsbA	Alignment	not modelled	99.9	24	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
52	c1x27F	Alignment	not modelled	99.9	36	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
53	d1fhsa	Alignment	not modelled	99.9	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
54	c2augB	Alignment	not modelled	99.9	27	PDB header: signaling protein Chain: B: PDB Molecule: growth factor receptor-bound protein 14; PDBTitle: crystal structure of the grb14 sh2 domain
55	c1ka6A	Alignment	not modelled	99.9	29	PDB header: immune system Chain: A: PDB Molecule: sh2 domain protein 1a; PDBTitle: sap/sh2d1a bound to peptide n-py

56	c2knoA	Alignment	not modelled	99.9	32	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)
57	c1k9aB	Alignment	not modelled	99.9	34	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
58	c2xp1A	Alignment	not modelled	99.9	15	PDB header: transcription Chain: A: PDB Molecule: spt6; PDBTitle: structure of the tandem sh2 domains from antonospora locustae2 transcription elongation factor spt6
59	c2hdxB	Alignment	not modelled	99.9	24	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
60	d1f2fa	Alignment	not modelled	99.9	37	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
61	d1g83a2	Alignment	not modelled	99.8	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
62	c1y57A	Alignment	not modelled	99.8	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
63	c2ysxA	Alignment	not modelled	99.8	29	PDB header: signaling protein Chain: A: PDB Molecule: signaling inositol polyphosphate phosphatase PDBTitle: solution structure of the human ship sh2 domain
64	d1bkla	Alignment	not modelled	99.8	37	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
65	c2ci8A	Alignment	not modelled	99.8	27	PDB header: translation Chain: A: PDB Molecule: cytoplasmic protein nck1; PDBTitle: sh2 domain of human nck1 adaptor protein - uncomplexed
66	c1x6cA	Alignment	not modelled	99.8	29	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
67	c2ekxA	Alignment	not modelled	99.8	33	PDB header: signaling protein Chain: A: PDB Molecule: cytoplasmic tyrosine-protein kinase bmx; PDBTitle: solution structure of the human bmx sh2 domain
68	c2izvA	Alignment	not modelled	99.8	23	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
69	c2hmhA	Alignment	not modelled	99.8	21	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.
70	d1i3za	Alignment	not modelled	99.8	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
71	d1d4ta	Alignment	not modelled	99.8	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
72	d2cs0a1	Alignment	not modelled	99.8	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
73	d2eyva1	Alignment	not modelled	99.8	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
74	d2shpa3	Alignment	not modelled	99.8	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
75	d1r1qa	Alignment	not modelled	99.8	35	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
76	d1fu6a	Alignment	not modelled	99.8	84	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
77	d1mila	Alignment	not modelled	99.8	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
78	c2h8hA	Alignment	not modelled	99.8	30	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: src kinase in complex with a quinazoline inhibitor
79	c1g83A	Alignment	not modelled	99.8	30	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase fyn; PDBTitle: crystal structure of fyn sh3-sh2
80	d1jyra	Alignment	not modelled	99.8	36	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
81	c2dm0A	Alignment	not modelled	99.8	30	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase txk; PDBTitle: solution structure of the sh2 domain of human tyrosine-2

						protein kinase txk
82	c2c0IA	Alignment	not modelled	99.8	33	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase hck; PDBTitle: src family kinase hck with bound inhibitor a-420983
83	d1cwea	Alignment	not modelled	99.8	43	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
84	d2fcia1	Alignment	not modelled	99.8	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
85	c2dcrA	Alignment	not modelled	99.8	29	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
86	c3mazA	Alignment	not modelled	99.8	17	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
87	d2c9wa2	Alignment	not modelled	99.8	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
88	c2el8A	Alignment	not modelled	99.8	20	PDB header: signaling protein Chain: A: PDB Molecule: signal-transducing adaptor protein 2; PDBTitle: solution structure of the human stap2 sh2 domain
89	c2kk6A	Alignment	not modelled	99.8	35	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
90	d1xa6a2	Alignment		99.8	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
91	d1rpya	Alignment	not modelled	99.7	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
92	c2eyzA	Alignment	not modelled	99.7	29	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform ii
93	c1rqgC	Alignment	not modelled	99.7	24	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
94	c2cr4A	Alignment	not modelled	99.7	26	PDB header: signaling protein Chain: A: PDB Molecule: sh3 domain-binding protein 2; PDBTitle: solution structure of the sh2 domain of human sh3bp2 protein
95	c3gxxB	Alignment	not modelled	99.7	26	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
96	c2dvjA	Alignment	not modelled	99.7	34	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog, PDBTitle: phosphorylated crk-ii
97	c3qwxX	Alignment	not modelled	99.7	25	PDB header: signaling protein Chain: X: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2 1-174
98	c3qwyA	Alignment	not modelled	99.7	22	PDB header: signaling protein Chain: A: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2
99	c2dx0B	Alignment	not modelled	99.7	39	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	c2eyyA	Alignment	not modelled	99.7	29	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform i
101	c2v1yB	Alignment	not modelled	99.5	76	PDB header: transferase Chain: B: PDB Molecule: phosphatidylinositol 3-kinase regulatory subunit alpha; PDBTitle: structure of a phosphoinositide 3-kinase alpha adaptor-2 binding domain (abd) in a complex with the ish2 domain3 from p85 alpha
102	c1xa6A	Alignment	not modelled	99.4	26	PDB header: signaling protein Chain: A: PDB Molecule: beta2-chimaerin; PDBTitle: crystal structure of the human beta2-chimaerin
103	d1uura3	Alignment	not modelled	99.4	16	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
104	d1bf5a3	Alignment	not modelled	99.2	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
105	d1bg1a3	Alignment	not modelled	98.9	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain PDB header: transferase

106	c3cblA_	Alignment	not modelled	98.8	34	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
107	c4a55B_	Alignment	not modelled	98.6	78	PDB header: transferase Chain: B: PDB Molecule: phosphatidylinositol 3-kinase regulatory subunit alpha; PDBTitle: crystal structure of p110alpha in complex with ish2 of p85alpha and2 the inhibitor pik-108
108	c3ojaB_	Alignment	not modelled	98.2	8	PDB header: protein binding Chain: B: PDB Molecule: anopheles plasmodium-responsive leucine-rich repeat protein PDBTitle: crystal structure of Irim1/apl1c complex
109	c3na7A_	Alignment	not modelled	98.1	13	PDB header: gene regulation, chaperone Chain: A: PDB Molecule: hp0958; PDBTitle: 2.2 angstrom structure of the hp0958 protein from helicobacter pylori2 ccug 17874
110	c2efrB_	Alignment	not modelled	98.1	16	PDB header: contractile protein Chain: B: PDB Molecule: general control protein gcn4 and tropomyosin 1 alpha chain; PDBTitle: crystal structure of the c-terminal tropomyosin fragment with n- and2 c-terminal extensions of the leucine zipper at 1.8 angstroms3 resolution
111	c3vkgA_	Alignment	not modelled	98.1	10	PDB header: motor protein Chain: A: PDB Molecule: dynein heavy chain, cytoplasmic; PDBTitle: x-ray structure of an mtbd truncation mutant of dynein motor domain
112	c1uusA_	Alignment	not modelled	98.0	18	PDB header: signal transduction Chain: A: PDB Molecule: stat protein; PDBTitle: structure of an activated dictyostelium stat in its2 dna-unbound form
113	c2cblA_	Alignment	not modelled	98.0	16	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
114	c3bunB_	Alignment	not modelled	98.0	16	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
115	c1ei3C_	Alignment	not modelled	97.9	14	PDB header: blood clotting Chain: C: PDB Molecule: fibrinogen; PDBTitle: crystal structure of native chicken fibrinogen
116	c4gkwB_	Alignment	not modelled	97.8	12	PDB header: structural protein Chain: B: PDB Molecule: spindle assembly abnormal protein 6; PDBTitle: crystal structure of the coiled-coil domain of c. elegans sas-6
117	c1bf5A_	Alignment	not modelled	97.8	7	PDB header: gene regulation/dna Chain: A: PDB Molecule: signal transducer and activator of transcription PDBTitle: tyrosine phosphorylated stat-1/dna complex
118	c3o0zD_	Alignment	not modelled	97.8	15	PDB header: transferase Chain: D: PDB Molecule: rho-associated protein kinase 1; PDBTitle: crystal structure of a coiled-coil domain from human rock i
119	c2rd0B_	Alignment	not modelled	97.6	78	PDB header: transferase/oncoprotein Chain: B: PDB Molecule: phosphatidylinositol 3-kinase regulatory subunit alpha; PDBTitle: structure of a human p110alpha/p85alpha complex
120	c3ghgK_	Alignment	not modelled	97.5	12	PDB header: blood clotting Chain: K: PDB Molecule: fibrinogen beta chain; PDBTitle: crystal structure of human fibrinogen