






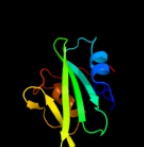



Phyre2

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Description	O88890
Date	Wed Jul 10 14:08:25 BST 2013
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Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1ka6A_	Alignment		100.0	94	PDB header: immune system Chain: A: PDB Molecule: sh2 domain protein 1a; PDBTitle: sap/sh2d1a bound to peptide n-py
2	d1d4ta_	Alignment		100.0	95	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
3	d1a81e1	Alignment		100.0	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
4	d2oq1a1	Alignment		100.0	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
5	d1i3za_	Alignment		100.0	38	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
6	c2vysxA_	Alignment		100.0	42	PDB header: signaling protein Chain: A: PDB Molecule: signaling inositol polyphosphate phosphatase PDBTitle: solution structure of the human ship sh2 domain
7	c2oq1A_	Alignment		100.0	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
8	c2dlyA_	Alignment		100.0	27	PDB header: transferase Chain: A: PDB Molecule: fyn-related kinase; PDBTitle: solution structure of the sh2 domain of murine fyn-related2 kinase
9	d1a81a1	Alignment		100.0	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
10	c4fj2A_	Alignment		100.0	26	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase syk; PDBTitle: structural and biophysical characterization of the syk activation2 switch
11	c2gsbA_	Alignment		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

12	d2oq1a2	Alignment		99.9	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
13	d1a81e2	Alignment		99.9	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
14	c2ozoA	Alignment		99.9	24	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: autoinhibited intact human zap-70
15	d1blja	Alignment		99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
16	d1lkka	Alignment		99.9	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
17	c2eo6A	Alignment		99.9	25	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
18	d1csya	Alignment		99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
19	d1a81a2	Alignment		99.9	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
20	c2ge9A	Alignment		99.9	27	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase btk; PDBTitle: solution structures of the sh2 domain of bruton's tyrosine2 kinase
21	d1rjaa	Alignment	not modelled	99.9	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
22	d1opka2	Alignment	not modelled	99.9	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
23	c2augB	Alignment	not modelled	99.9	23	PDB header: signaling protein Chain: B: PDB Molecule: growth factor receptor-bound protein 14; PDBTitle: crystal structure of the grb14 sh2 domain
24	d1k9aa2	Alignment	not modelled	99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
25	d1nrva	Alignment	not modelled	99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
26	d1jwoa	Alignment	not modelled	99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
27	d1o48a	Alignment	not modelled	99.9	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
28	d2shpa2	Alignment	not modelled	99.9	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
29	c2ablA	Alignment	not modelled	99.9	33	PDB header: transferase Chain: A: PDB Molecule: abl tyrosine kinase; PDBTitle: sh3-sh2 domain fragment of human bcr-abl tyrosine

					kinase
30	d1qcfa2	Alignment	not modelled	99.9	28 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
31	d1f2fa_	Alignment	not modelled	99.9	28 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
32	c2fo0A_	Alignment	not modelled	99.9	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
33	d2qmsa1	Alignment	not modelled	99.9	24 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
34	c1a81E_	Alignment	not modelled	99.9	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
35	d1luia_	Alignment	not modelled	99.9	34 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
36	c2eobA_	Alignment	not modelled	99.9	20 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
37	d3c7ia1	Alignment	not modelled	99.9	27 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
38	d1fhsa_	Alignment	not modelled	99.9	22 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
39	c2dm0A_	Alignment	not modelled	99.9	25 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
40	d1g83a2	Alignment	not modelled	99.9	26 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
41	c3hizB_	Alignment	not modelled	99.9	27 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
42	d1bkla_	Alignment	not modelled	99.9	27 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
43	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
44	c1x27F_	Alignment	not modelled	99.9	23 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
45	c2eo3A_	Alignment	not modelled	99.9	24 PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of the sh2 domain from human crk-like2 protein
46	c1y57A_	Alignment	not modelled	99.9	25 PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: structure of unphosphorylated c-src in complex with an inhibitor
47	c3nhnA_	Alignment	not modelled	99.9	28 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
48	c2lqnA_	Alignment	not modelled	99.9	19 PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of crkl
49	d2izva2	Alignment	not modelled	99.9	20 Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
50	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 ptyr813 phosphopeptide
51	c1oplA_	Alignment	not modelled	99.9	30 PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase; PDBTitle: structural basis for the auto-inhibition of c-abl tyrosine2 kinase
52	c1x6cA_	Alignment	not modelled	99.9	27 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
53	c2y3aB_	Alignment	not modelled	99.9	31 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
54	c2shpA_	Alignment	not modelled	99.9	26 PDB header: tyrosine phosphatase Chain: A: PDB Molecule: shp-2;

						PDBTitle: tyrosine phosphatase shp-2
55	c2crhA_	Alignment	not modelled	99.9	23	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
56	c2h8hA_	Alignment	not modelled	99.9	25	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: src kinase in complex with a quinazoline inhibitor
57	d2fcia1	Alignment	not modelled	99.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
58	c2c9wA_	Alignment	not modelled	99.9	18	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
59	c2dlza_	Alignment	not modelled	99.9	20	PDB header: signaling protein Chain: A: PDB Molecule: protein vav-2; PDBTitle: solution structure of the sh2 domain of human protein vav-2
60	d1pica_	Alignment	not modelled	99.9	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
61	c2el8A_	Alignment	not modelled	99.9	15	PDB header: signaling protein Chain: A: PDB Molecule: signal-transducing adaptor protein 2; PDBTitle: solution structure of the human stap2 sh2 domain
62	c2hmbA_	Alignment	not modelled	99.9	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.
63	c3mazA_	Alignment	not modelled	99.9	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 nta1 ptyr136 peptide
64	c2c0iA_	Alignment	not modelled	99.9	25	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase hck; PDBTitle: src family kinase hck with bound inhibitor a-420983
65	d1ayaa_	Alignment	not modelled	99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
66	c2knoA_	Alignment	not modelled	99.9	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)
67	c2lctA_	Alignment	not modelled	99.9	23	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
68	c1k9aB_	Alignment	not modelled	99.9	30	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
69	c2ci8A_	Alignment	not modelled	99.9	28	PDB header: translation Chain: A: PDB Molecule: cytoplasmic protein nck1; PDBTitle: sh2 domain of human nck1 adaptor protein - uncomplexed
70	c2vifA_	Alignment	not modelled	99.9	24	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
71	d2cs0a1	Alignment	not modelled	99.9	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
72	d2eyva1	Alignment	not modelled	99.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
73	c3ps5A_	Alignment	not modelled	99.9	20	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
74	c2izvA_	Alignment	not modelled	99.9	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
75	c2b3oA_	Alignment	not modelled	99.9	20	PDB header: hydrolase Chain: A: PDB Molecule: tyrosine-protein phosphatase, non-receptor type PDBTitle: crystal structure of human tyrosine phosphatase shp-1
76	d1jyra_	Alignment	not modelled	99.9	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
77	d2shpa3	Alignment	not modelled	99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
78	c2kk6A_	Alignment	not modelled	99.9	27	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
79	c3gqiB_	Alignment	not modelled	99.9	26	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

80	d1mila_	Alignment	not modelled	99.9	34	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
81	d1cwea_	Alignment	not modelled	99.9	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
82	c1g83A_	Alignment	not modelled	99.9	26	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase fyn; PDBTitle: crystal structure of fyn sh3-sh2
83	d1r1qa_	Alignment	not modelled	99.9	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
84	d1fu6a_	Alignment	not modelled	99.9	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
85	d1qada_	Alignment	not modelled	99.9	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
86	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
87	d1rpya_	Alignment	not modelled	99.9	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
88	d2c9wa2	Alignment	not modelled	99.9	16	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
89	c1rqqC_	Alignment	not modelled	99.8	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
90	c2eyzA_	Alignment	not modelled	99.8	21	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform ii
91	d1xa6a2	Alignment	not modelled	99.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
92	c2dvjA_	Alignment	not modelled	99.8	19	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog, PDBTitle: phosphorylated crk-ii
93	c3qwxX_	Alignment	not modelled	99.7	24	PDB header: signaling protein Chain: X: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2 1-174
94	c2eyyA_	Alignment	not modelled	99.7	20	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform i
95	c3qwyA_	Alignment	not modelled	99.7	25	PDB header: signaling protein Chain: A: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2
96	c3gxxB_	Alignment	not modelled	99.7	12	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
97	c2cr4A_	Alignment	not modelled	99.7	19	PDB header: signaling protein Chain: A: PDB Molecule: sh3 domain-binding protein 2; PDBTitle: solution structure of the sh2 domain of human sh3bp2 protein
98	c2dx0B_	Alignment	not modelled	99.7	26	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
99	c3or8A_	Alignment	not modelled	99.6	11	PDB header: transcription Chain: A: PDB Molecule: transcription elongation factor spt6; PDBTitle: a tandem sh2 domain in transcription elongation factor spt6
100	c2xp1A_	Alignment	not modelled	99.6	14	PDB header: transcription Chain: A: PDB Molecule: spt6; PDBTitle: structure of the tandem sh2 domains from antonospora locustae2 transcription elongation factor spt6
101	d1bf5a3	Alignment	not modelled	99.5	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
102	c1xa6A_	Alignment	not modelled	99.4	34	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	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
104	d1bg1a3	Alignment	not modelled	99.2	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
105	c3cblA_	Alignment	not modelled	99.1	28	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 PDB header: complex (proto-oncogene/peptide)

106	c2cblA	Alignment	not modelled	98.2	14	Chain: A: PDB Molecule: proto-oncogene cbl; PDBTitle: n-terminal domain of cbl in complex with its binding site2 on zap-70
107	c3bunB	Alignment	not modelled	98.2	14	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
108	c1uusA	Alignment	not modelled	98.1	19	PDB header: signal transduction Chain: A: PDB Molecule: stat protein; PDBTitle: structure of an activated dictyostelium stat in its2 dna-unbound form
109	c1y1uA	Alignment	not modelled	97.9	27	PDB header: signaling protein Chain: A: PDB Molecule: signal transducer and activator of transcription 5a; PDBTitle: structure of unphosphorylated stat5a
110	c1bg1A	Alignment	not modelled	97.7	22	PDB header: transcription/dna Chain: A: PDB Molecule: protein (transcription factor stat3b); PDBTitle: transcription factor stat3b/dna complex
111	c1yvlB	Alignment	not modelled	97.7	32	PDB header: signaling protein Chain: B: PDB Molecule: signal transducer and activator of transcription PDBTitle: structure of unphosphorylated stat1
112	c1bf5A	Alignment	not modelled	97.6	33	PDB header: gene regulation/dna Chain: A: PDB Molecule: signal transducer and activator of transcription PDBTitle: tyrosine phosphorylated stat-1/dna complex
113	c3cwgA	Alignment	not modelled	96.2	34	PDB header: transcription Chain: A: PDB Molecule: signal transducer and activator of transcription PDBTitle: unphosphorylated mouse stat3 core fragment
114	c1fbvA	Alignment	not modelled	94.0	14	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	d3buxb3	Alignment	not modelled	91.8	14	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
116	c3op0B	Alignment	not modelled	87.0	16	PDB header: signaling protein/signaling protein regu Chain: B: PDB Molecule: signal transduction protein cbl-c; PDBTitle: crystal structure of cbl-c (cbl-3) tkb domain in complex with egfr2 py1069 peptide
117	c1griA	Alignment	not modelled	80.4	21	PDB header: signal transduction adaptor Chain: A: PDB Molecule: growth factor bound protein 2; PDBTitle: grb2
118	c1x60A	Alignment	not modelled	35.7	17	PDB header: hydrolase Chain: A: PDB Molecule: sporulation-specific n-acetylmuramoyl-l-alanine PDBTitle: solution structure of the peptidoglycan binding domain of2 b. subtilis cell wall lytic enzyme cwlc
119	d1wlha1	Alignment	not modelled	34.9	21	Fold: Immunoglobulin-like beta-sandwich Superfamily: E set domains Family: Filamin repeat (rod domain)
120	c1ksrA	Alignment	not modelled	33.3	21	PDB header: actin binding protein Chain: A: PDB Molecule: gelation factor; PDBTitle: the repeating segments of the f-actin cross-linking2 gelation factor (abp-120) have an immunoglobulin fold, nmr,3 20 structures