

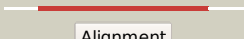

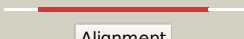
















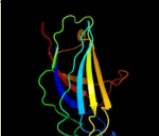






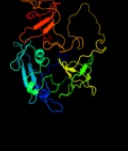

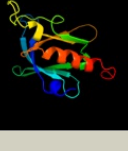


Phyre2

Email	l.a.kelley@imperial.ac.uk
Description	Q62077
Date	Tue Jul 30 13:20:18 BST 2013
Unique Job ID	a1fc7b67e52f93b9

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3ohmB_	 Alignment		100.0	34	PDB header: signaling protein / hydrolase Chain: B: PDB Molecule: 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase PDBTitle: crystal structure of activated g alpha q bound to its effector2 phospholipase c beta 3
2	c3qr0A_	 Alignment		100.0	34	PDB header: hydrolase Chain: A: PDB Molecule: phospholipase c-beta (plc-beta); PDBTitle: crystal structure of s. officinalis plc21
3	c2fjuB_	 Alignment		100.0	36	PDB header: signaling protein,apoptosis/hydrolase Chain: B: PDB Molecule: 1-phosphatidylinositol-4,5-bisphosphate PDBTitle: activated rac1 bound to its effector phospholipase c beta 2
4	c1djbB_	 Alignment		100.0	44	PDB header: lipid degradation Chain: B: PDB Molecule: phosphoinositide-specific phospholipase c, PDBTitle: phosphoinositide-specific phospholipase c-delta1 from rat2 complexed with inositol-2,4,5-trisphosphate
5	d2zkmx4	 Alignment		100.0	54	Fold: TIM beta/alpha-barrel Superfamily: PLC-like phosphodiesterases Family: Mammalian PLC
6	d1qasa3	 Alignment		100.0	62	Fold: TIM beta/alpha-barrel Superfamily: PLC-like phosphodiesterases Family: Mammalian PLC
7	c3gqiB_	 Alignment		100.0	100	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
8	c2b3oA_	 Alignment		100.0	30	PDB header: hydrolase Chain: A: PDB Molecule: tyrosine-protein phosphatase, non-receptor type PDBTitle: crystal structure of human tyrosine phosphatase shp-1
9	c3ps5A_	 Alignment		100.0	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
10	c2shpA_	 Alignment		100.0	32	PDB header: tyrosine phosphatase Chain: A: PDB Molecule: shp-2; PDBTitle: tyrosine phosphatase shp-2
11	d2zkmx2	 Alignment		100.0	31	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)

12	c2lqnA	Alignment		100.0	20	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of crkl
13	c2oq1A	Alignment		100.0	29	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: tandem sh2 domains of zap-70 with 19-mer zeta1 peptide
14	d1qasa2	Alignment		99.9	34	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
15	c4fl2A	Alignment		99.9	28	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase syk; PDBTitle: structural and biophysical characterization of the syk activation2 switch
16	c2ozoA	Alignment		99.9	27	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: autoinhibited intact human zap-70
17	c1a81E	Alignment		99.9	26	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
18	c2eyzA	Alignment		99.9	20	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform ii
19	c2fjIA	Alignment		99.9	100	PDB header: hydrolase Chain: A: PDB Molecule: 1-phosphatidylinositol-4,5-bisphosphate PDBTitle: solution structure of the split ph domain in phospholipase2 c-gamma1
20	d2zkmx3	Alignment		99.9	16	Fold: PH domain-like barrel Superfamily: PH domain-like Family: Pleckstrin-homology domain (PH domain)
21	d2zkmx1	Alignment	not modelled	99.8	21	Fold: EF Hand-like Superfamily: EF-hand Family: EF-hand modules in multidomain proteins
22	c2eyyA	Alignment	not modelled	99.8	25	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform i
23	d1djxb1	Alignment	not modelled	99.8	16	Fold: EF Hand-like Superfamily: EF-hand Family: EF-hand modules in multidomain proteins
24	c2dviA	Alignment	not modelled	99.8	28	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog, PDBTitle: phosphorylated crk-ii
25	c3h4wA	Alignment	not modelled	99.8	25	PDB header: hydrolase Chain: A: PDB Molecule: phosphatidylinositol-specific phospholipase c1; PDBTitle: structure of a ca+2 dependent phosphatidylinositol-specific2 phospholipase c (pi-plc) enzyme from streptomyces antibioticus
26	c3qwxX	Alignment	not modelled	99.8	22	PDB header: signaling protein Chain: X: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2 1-174
27	c3qwvA	Alignment	not modelled	99.8	22	PDB header: signaling protein Chain: A: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2
28	c3or8A	Alignment	not modelled	99.7	17	PDB header: transcription Chain: A: PDB Molecule: transcription elongation factor spt6; PDBTitle: a tandem sh2 domain in transcription elongation factor spt6

29	d1maia	Alignment	not modelled	99.7	21	Fold: PH domain-like barrel Superfamily: PH domain-like Family: Pleckstrin-homology domain (PH domain)
30	d1qasa1	Alignment	not modelled	99.7	17	Fold: EF Hand-like Superfamily: EF-hand Family: EF-hand modules in multidomain proteins
31	c2xp1A	Alignment	not modelled	99.7	18	PDB header: transcription Chain: A: PDB Molecule: spt6; PDBTitle: structure of the tandem sh2 domains from antonospora locustae2 transcription elongation factor spt6
32	c2eobA	Alignment	not modelled	99.6	57	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
33	c2vszA	Alignment	not modelled	99.6	21	PDB header: apoptosis Chain: A: PDB Molecule: engulfment and cell motility protein 1; PDBTitle: crystal structure of the elmo1 ph domain
34	c2gsbA	Alignment	not modelled	99.6	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
35	d2fcia1	Alignment	not modelled	99.5	96	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
36	c2dx0B	Alignment	not modelled	99.5	66	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
37	c2hdxB	Alignment	not modelled	99.5	34	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
38	d2nq3a1	Alignment	not modelled	99.4	25	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
39	c2nq3A	Alignment	not modelled	99.4	25	PDB header: ligase Chain: A: PDB Molecule: itchy homolog e3 ubiquitin protein ligase; PDBTitle: crystal structure of the c2 domain of human itchy homolog2 e3 ubiquitin protein ligase
40	c2y3aB	Alignment	not modelled	99.4	32	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
41	c2eo6A	Alignment	not modelled	99.4	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 blk
42	c3hizB	Alignment	not modelled	99.4	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
43	d1csya	Alignment	not modelled	99.4	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
44	d3c7ia1	Alignment	not modelled	99.4	34	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
45	c2q3xA	Alignment	not modelled	99.4	19	PDB header: transport protein Chain: A: PDB Molecule: regulating synaptic membrane exocytosis protein 1; PDBTitle: the rim1alpha c2b domain
46	c2dlzA	Alignment	not modelled	99.4	24	PDB header: signaling protein Chain: A: PDB Molecule: protein vav-2; PDBTitle: solution structure of the sh2 domain of human protein vav-2
47	d2qmsa1	Alignment	not modelled	99.4	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
48	d1gmia	Alignment	not modelled	99.4	20	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
49	c2dmhA	Alignment	not modelled	99.4	24	PDB header: lipid binding protein Chain: A: PDB Molecule: myoferlin; PDBTitle: solution structure of the first c2 domain of human myoferlin
50	d2r83a1	Alignment	not modelled	99.4	20	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: Synaptotagmin-like (S variant)
51	d1a81e2	Alignment	not modelled	99.3	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
52	d1rlwa	Alignment	not modelled	99.3	20	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
53	d1a81a1	Alignment	not modelled	99.3	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
54	d2oq1a1	Alignment	not modelled	99.3	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

55	d2izva2	Alignment	not modelled	99.3	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
56	d1fhsa_	Alignment	not modelled	99.3	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
57	c3l9bA_	Alignment	not modelled	99.3	9	PDB header: membrane protein Chain: A: PDB Molecule: otoflerlin; PDBTitle: crystal structure of rat otoferlin c2a
58	d2shpa2	Alignment	not modelled	99.3	34	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
59	d2oq1a2	Alignment	not modelled	99.3	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
60	c2chdA_	Alignment	not modelled	99.3	25	PDB header: protein transport Chain: A: PDB Molecule: rabphilin-3a; PDBTitle: crystal structure of the c2a domain of rabphilin-3a
61	c3m7fB_	Alignment	not modelled	99.3	20	PDB header: signaling protein/ligase Chain: B: PDB Molecule: e3 ubiquitin-protein ligase nedd4; PDBTitle: crystal structure of the nedd4 c2/grb10 sh2 complex
62	d1rjaa_	Alignment	not modelled	99.3	35	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
63	d1a81e1	Alignment	not modelled	99.3	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
64	d1nrva_	Alignment	not modelled	99.3	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
65	c2crhA_	Alignment	not modelled	99.3	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
66	c3nsjA_	Alignment	not modelled	99.3	18	PDB header: immune system Chain: A: PDB Molecule: perforin-1; PDBTitle: the x-ray crystal structure of lymphocyte perforin
67	c2dlyA_	Alignment	not modelled	99.3	23	PDB header: transferase Chain: A: PDB Molecule: fyn-related kinase; PDBTitle: solution structure of the sh2 domain of murine fyn-related2 kinase
68	d1pica_	Alignment	not modelled	99.3	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
69	c3kwtA_	Alignment	not modelled	99.3	28	PDB header: metal binding protein Chain: A: PDB Molecule: munc13-1; PDBTitle: munc13-1 c2b-domain, calcium-free
70	c2augB_	Alignment	not modelled	99.3	32	PDB header: signaling protein Chain: B: PDB Molecule: growth factor receptor-bound protein 14; PDBTitle: crystal structure of the grb14 sh2 domain
71	c2vysA_	Alignment	not modelled	99.3	30	PDB header: signaling protein Chain: A: PDB Molecule: signaling inositol polyphosphate phosphatase PDBTitle: solution structure of the human ship sh2 domain
72	c2ci8A_	Alignment	not modelled	99.3	33	PDB header: translation Chain: A: PDB Molecule: cytoplasmic protein nck1; PDBTitle: sh2 domain of human nck1 adaptor protein - uncomplexed
73	c2cr4A_	Alignment	not modelled	99.3	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
74	d1a81a2	Alignment	not modelled	99.3	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
75	c1ka6A_	Alignment	not modelled	99.3	25	PDB header: immune system Chain: A: PDB Molecule: sh2 domain protein 1a; PDBTitle: sap/sh2d1a bound to peptide n-py
76	d2eyva1	Alignment	not modelled	99.2	40	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
77	d2cs0a1	Alignment	not modelled	99.2	35	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
78	c3fbkB_	Alignment	not modelled	99.2	22	PDB header: signaling protein Chain: B: PDB Molecule: regulator of g-protein signaling 3; PDBTitle: crystal structure of the c2 domain of the human regulator2 of g-protein signaling 3 isoform 6 (rgp3), northeast3 structural genomics consortium target hr5550a
79	c3a98B_	Alignment	not modelled	99.2	17	PDB header: signaling protein Chain: B: PDB Molecule: engulfment and cell motility protein 1; PDBTitle: crystal structure of the complex of the interacting regions of dock22 and elmo1
80	c2fk9A_	Alignment	not modelled	99.2	20	PDB header: transferase Chain: A: PDB Molecule: protein kinase c, eta type; PDBTitle: human protein kinase c, eta
81	d1jyra_	Alignment	not modelled	99.2	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

82	d1luia_	Alignment	not modelled	99.2	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
83	c2kk6A_	Alignment	not modelled	99.2	28	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
84	d1dsya_	Alignment	not modelled	99.2	24	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: Synaptotagmin-like (S variant)
85	d1blja_	Alignment	not modelled	99.2	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
86	d1qcfa2	Alignment	not modelled	99.2	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
87	c2fo0A_	Alignment	not modelled	99.2	27	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
88	c1x6cA_	Alignment	not modelled	99.2	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
89	d1opka2	Alignment	not modelled	99.2	36	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
90	c2e18A_	Alignment	not modelled	99.2	18	PDB header: signaling protein Chain: A: PDB Molecule: signal-transducing adaptor protein 2; PDBTitle: solution structure of the human stap2 sh2 domain
91	c1oplA_	Alignment	not modelled	99.2	26	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase; PDBTitle: structural basis for the auto-inhibition of c-abl tyrosine2 kinase
92	d1xa6a2	Alignment	not modelled	99.2	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
93	d1ayaa_	Alignment	not modelled	99.2	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
94	c2dcrA_	Alignment	not modelled	99.2	23	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
95	c2ge9A_	Alignment	not modelled	99.2	28	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase btk; PDBTitle: solution structures of the sh2 domain of bruton's tyrosine2 kinase
96	c1x27F_	Alignment	not modelled	99.2	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 of2 p130cas
97	d1a25a_	Alignment	not modelled	99.2	24	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: Synaptotagmin-like (S variant)
98	d1bkla_	Alignment	not modelled	99.2	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
99	d2shpa3	Alignment	not modelled	99.2	36	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
100	c2eo3A_	Alignment	not modelled	99.2	26	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of the sh2 domain from human crk-like2 protein
101	d1f2fa_	Alignment	not modelled	99.2	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
102	d1mila_	Alignment	not modelled	99.2	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
103	d1i3za_	Alignment	not modelled	99.2	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
104	c3jzyA_	Alignment	not modelled	99.2	24	PDB header: endocytosis Chain: A: PDB Molecule: intersectin 2; PDBTitle: crystal structure of human intersectin 2 c2 domain
105	d1d4ta_	Alignment	not modelled	99.2	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
106	c1y57A_	Alignment	not modelled	99.2	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 PDB header: transferase

107	c3nhnA_	Alignment	not modelled	99.2	27	Chain: A: PDB Molecule: tyrosine-protein kinase hck; PDBTitle: crystal structure of the src-family kinase hck sh3-sh2-linker2 regulatory region
108	c2z0uB_	Alignment	not modelled	99.2	16	PDB header: lipid binding protein Chain: B: PDB Molecule: ww domain-containing protein 1; PDBTitle: crystal structure of c2 domain of kibra protein
109	c2lctA_	Alignment	not modelled	99.2	27	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
110	d1ugka_	Alignment	not modelled	99.2	18	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: Synaptotagmin-like (S variant)
111	d1k9aa2	Alignment	not modelled	99.2	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
112	d1lkka_	Alignment	not modelled	99.2	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
113	d1qada_	Alignment	not modelled	99.2	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
114	d1o48a_	Alignment	not modelled	99.2	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
115	d2ep6a1	Alignment	not modelled	99.2	26	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
116	c2ablA_	Alignment	not modelled	99.2	31	PDB header: transferase Chain: A: PDB Molecule: abl tyrosine kinase; PDBTitle: sh3-sh2 domain fragment of human bcr-abl tyrosine kinase
117	c2ekxA_	Alignment	not modelled	99.1	29	PDB header: signaling protein Chain: A: PDB Molecule: cytoplasmic tyrosine-protein kinase bmx; PDBTitle: solution structure of the human bmx sh2 domain
118	c2nsgA_	Alignment	not modelled	99.1	23	PDB header: ligase Chain: A: PDB Molecule: e3 ubiquitin-protein ligase nedd4-like protein; PDBTitle: crystal structure of the c2 domain of the human e3 ubiquitin-protein2 ligase nedd4-like protein
119	c2jqzA_	Alignment	not modelled	99.1	20	PDB header: ligase Chain: A: PDB Molecule: e3 ubiquitin-protein ligase smurf2; PDBTitle: solution structure of the c2 domain of human smurf2
120	c2enpA_	Alignment	not modelled	99.1	23	PDB header: transport protein Chain: A: PDB Molecule: b/k protein; PDBTitle: solution structure of the first c2 domain from human b/k2 protein