

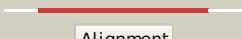






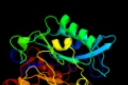





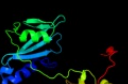



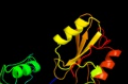

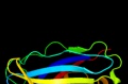









Phyre2

Email	l.a.kelley@imperial.ac.uk
Description	P16885
Date	Sat Jun 16 10:20:27 BST 2012
Unique Job ID	6f2623cc6c83566a

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3ohmB_	 Alignment		100.0	35	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	35	PDB header: hydrolase Chain: A: PDB Molecule: phospholipase c-beta (plc-beta); PDBTitle: crystal structure of s. officinalis plc21
3	c2fjuB_	 Alignment		100.0	35	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	c1djyB_	 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	59	Fold: TIM beta/alpha-barrel Superfamily: PLC-like phosphodiesterases Family: Mammalian PLC
7	c3gqiB_	 Alignment		100.0	62	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	24	PDB header: hydrolase Chain: A: PDB Molecule: tyrosine-protein phosphatase, non-receptor type PDBTitle: crystal structure of human tyrosine phosphatase shp-1
9	c2shpA_	 Alignment		100.0	31	PDB header: tyrosine phosphatase Chain: A: PDB Molecule: shp-2; PDBTitle: tyrosine phosphatase shp-2
10	c3ps5A_	 Alignment		100.0	26	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
11	d2zkmx2	 Alignment		100.0	31	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)

12	d1qasa2	Alignment		100.0	31	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
13	c2lqnA	Alignment		100.0	19	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of crkl
14	c2oq1A	Alignment		99.9	26	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: tandem sh2 domains of zap-70 with 19-mer zeta1 peptide
15	c2ozoA	Alignment		99.9	24	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: autoinhibited intact human zap-70
16	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
17	c2eyzA	Alignment		99.9	19	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform ii
18	d2zkmx3	Alignment		99.9	18	Fold: PH domain-like barrel Superfamily: PH domain-like Family: PIeckstrin-homology domain (PH domain)
19	c2eyyA	Alignment		99.9	27	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform i
20	c2dviA	Alignment		99.8	26	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog, PDBTitle: phosphorylated crk-ii
21	c3qwxX	Alignment	not modelled	99.8	27	PDB header: signaling protein Chain: X: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2 1-174
22	c3qwyA	Alignment	not modelled	99.8	27	PDB header: signaling protein Chain: A: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2
23	d2zkmx1	Alignment	not modelled	99.8	17	Fold: EF Hand-like Superfamily: EF-hand Family: EF-hand modules in multidomain proteins
24	c3h4wA	Alignment	not modelled	99.8	21	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
25	d1djb1	Alignment	not modelled	99.8	25	Fold: EF Hand-like Superfamily: EF-hand Family: EF-hand modules in multidomain proteins
26	c2fj1A	Alignment	not modelled	99.8	41	PDB header: hydrolase Chain: A: PDB Molecule: 1-phosphatidylinositol-4,5-bisphosphate PDBTitle: solution structure of the split ph domain in phospholipase2 c-gamma1
27	d1maia	Alignment	not modelled	99.7	25	Fold: PH domain-like barrel Superfamily: PH domain-like Family: PIeckstrin-homology domain (PH domain)
28	c2eobA	Alignment	not modelled	99.7	92	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

29	d1qasa1	Alignment	not modelled	99.7	20	Fold: EF Hand-like Superfamily: EF-hand Family: EF-hand modules in multidomain proteins
30	c3or8A_	Alignment	not modelled	99.7	13	PDB header: transcription Chain: A: PDB Molecule: transcription elongation factor spt6; PDBTitle: a tandem sh2 domain in transcription elongation factor spt6
31	c2vszA_	Alignment	not modelled	99.6	22	PDB header: apoptosis Chain: A: PDB Molecule: engulfment and cell motility protein 1; PDBTitle: crystal structure of the elmo1 ph domain
32	c2xp1A_	Alignment	not modelled	99.6	20	PDB header: transcription Chain: A: PDB Molecule: spt6; PDBTitle: structure of the tandem sh2 domains from antonospora locustae2 transcription elongation factor spt6
33	c2qsbA_	Alignment	not modelled	99.5	23	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
34	c2dx0B_	Alignment	not modelled	99.5	92	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
35	d2fcia1	Alignment	not modelled	99.5	64	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
36	c2y3aB_	Alignment	not modelled	99.5	38	PDB header: transferase Chain: B: PDB Molecule: phosphatidylinositol 3-kinase regulatory subunit beta; PDBTitle: crystal structure of p110beta in complex with ics2 of p85beta and2 the drug gdc-0941
37	c2eo6A_	Alignment	not modelled	99.4	36	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
38	c2nq3A_	Alignment	not modelled	99.4	21	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
39	d2nq3a1	Alignment	not modelled	99.4	21	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
40	c2dmhA_	Alignment	not modelled	99.4	23	PDB header: lipid binding protein Chain: A: PDB Molecule: myoferlin; PDBTitle: solution structure of the first c2 domain of human myoferlin
41	d1gmia_	Alignment	not modelled	99.4	17	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
42	d2r83a1	Alignment	not modelled	99.4	22	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: Synaptotagmin-like (S variant)
43	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
44	c2q3xA_	Alignment	not modelled	99.4	21	PDB header: transport protein Chain: A: PDB Molecule: regulating synaptic membrane exocytosis protein 1; PDBTitle: the rim1alpha c2b domain
45	d1rlwa_	Alignment	not modelled	99.4	20	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
46	d1csya_	Alignment	not modelled	99.4	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
47	c3nsjA_	Alignment	not modelled	99.4	23	PDB header: immune system Chain: A: PDB Molecule: perforin-1; PDBTitle: the x-ray crystal structure of lymphocyte perforin
48	d2oq1a1	Alignment	not modelled	99.4	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
49	c3l9bA_	Alignment	not modelled	99.4	15	PDB header: membrane protein Chain: A: PDB Molecule: otoferlin; PDBTitle: crystal structure of rat otoferlin c2a
50	d1nrva_	Alignment	not modelled	99.4	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
51	c3m7fB_	Alignment	not modelled	99.3	19	PDB header: signaling protein/ligase Chain: B: PDB Molecule: e3 ubiquitin-protein ligase nedd4; PDBTitle: crystal structure of the nedd4 c2/grb10 sh2 complex
52	c2chdA_	Alignment	not modelled	99.3	23	PDB header: protein transport Chain: A: PDB Molecule: rabphilin-3a; PDBTitle: crystal structure of the c2a domain of rabphilin-3a
53	c3kwtA_	Alignment	not modelled	99.3	18	PDB header: metal binding protein Chain: A: PDB Molecule: munc13-1; PDBTitle: munc13-1 c2b-domain, calcium-free
54	d1a81e2	Alignment	not modelled	99.3	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
						Fold: SH2-like

55	d2oq1a2	Alignment	not modelled	99.3	30	Superfamily: SH2 domain Family: SH2 domain
56	d1luia	Alignment	not modelled	99.3	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
57	d1pica	Alignment	not modelled	99.3	34	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
58	d2shpa2	Alignment	not modelled	99.3	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
59	c3fbkB	Alignment	not modelled	99.3	15	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
60	c1x6cA	Alignment	not modelled	99.3	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
61	c2dlzA	Alignment	not modelled	99.3	19	PDB header: signaling protein Chain: A: PDB Molecule: protein vav-2; PDBTitle: solution structure of the sh2 domain of human protein vav-2
62	d1ayaa	Alignment	not modelled	99.3	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
63	d1a81a1	Alignment	not modelled	99.3	18	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
64	c2el8A	Alignment	not modelled	99.3	27	PDB header: signaling protein Chain: A: PDB Molecule: signal-transducing adaptor protein 2; PDBTitle: solution structure of the human stap2 sh2 domain
65	d2qmsa1	Alignment	not modelled	99.3	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
66	d1a81a2	Alignment	not modelled	99.3	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
67	d1dsya	Alignment	not modelled	99.3	20	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: Synaptotagmin-like (S variant)
68	d3c7ia1	Alignment	not modelled	99.3	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
69	c2dlyA	Alignment	not modelled	99.3	26	PDB header: transferase Chain: A: PDB Molecule: fyn-related kinase; PDBTitle: solution structure of the sh2 domain of murine fyn-related2 kinase
70	d1a25a	Alignment	not modelled	99.2	20	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: Synaptotagmin-like (S variant)
71	d1rjaa	Alignment	not modelled	99.2	37	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
72	c2ysxA	Alignment	not modelled	99.2	30	PDB header: signaling protein Chain: A: PDB Molecule: signaling inositol polyphosphate phosphatase PDBTitle: solution structure of the human ship sh2 domain
73	d1k9aa2	Alignment	not modelled	99.2	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
74	c1ka6A	Alignment	not modelled	99.2	22	PDB header: immune system Chain: A: PDB Molecule: sh2 domain protein 1a; PDBTitle: sap/sh2d1a bound to peptide n-py
75	c1griA	Alignment	not modelled	99.2	31	PDB header: signal transduction adaptor Chain: A: PDB Molecule: growth factor bound protein 2; PDBTitle: grb2
76	d1fhsa	Alignment	not modelled	99.2	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
77	c3jzyA	Alignment	not modelled	99.2	21	PDB header: endocytosis Chain: A: PDB Molecule: intersectin 2; PDBTitle: crystal structure of human intersectin 2 c2 domain
78	c2fo0A	Alignment	not modelled	99.2	24	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
79	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
80	c3a98B	Alignment	not modelled	99.2	21	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
81	d2izva2	Alignment	not modelled	99.2	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

82	d1a81e1	Alignment	not modelled	99.2	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
83	c2crhA	Alignment	not modelled	99.2	29	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
84	d1blja	Alignment	not modelled	99.2	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
85	c1k9aB	Alignment	not modelled	99.2	29	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
86	c2ge9A	Alignment	not modelled	99.2	25	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase btk; PDBTitle: solution structures of the sh2 domain of bruton's tyrosine2 kinase
87	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
88	d1ugka	Alignment	not modelled	99.2	19	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: Synaptotagmin-like (S variant)
89	c2ekxA	Alignment	not modelled	99.2	26	PDB header: signaling protein Chain: A: PDB Molecule: cytoplasmic tyrosine-protein kinase bmx; PDBTitle: solution structure of the human bmx sh2 domain
90	d1xa6a2	Alignment	not modelled	99.2	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
91	d1i3za	Alignment	not modelled	99.2	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
92	d1qada	Alignment	not modelled	99.2	39	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
93	c2ci8A	Alignment	not modelled	99.2	30	PDB header: translation Chain: A: PDB Molecule: cytoplasmic protein nck1; PDBTitle: sh2 domain of human nck1 adaptor protein - uncomplexed
94	c2eo3A	Alignment	not modelled	99.2	32	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of the sh2 domain from human crk-like2 protein
95	c2nsgA	Alignment	not modelled	99.2	22	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
96	d2cs0a1	Alignment	not modelled	99.2	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
97	d1d4ta	Alignment	not modelled	99.2	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
98	d1jyra	Alignment	not modelled	99.2	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
99	c2lctA	Alignment	not modelled	99.2	29	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
100	d2ep6a1	Alignment	not modelled	99.2	29	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
101	c2enpA	Alignment	not modelled	99.2	28	PDB header: transport protein Chain: A: PDB Molecule: b/k protein; PDBTitle: solution structure of the first c2 domain from human b/k2 protein
102	c2cr4A	Alignment	not modelled	99.2	20	PDB header: signaling protein Chain: A: PDB Molecule: sh3 domain-binding protein 2; PDBTitle: solution structure of the sh2 domain of human sh3bp2 protein
103	c2jqzA	Alignment	not modelled	99.2	21	PDB header: ligase Chain: A: PDB Molecule: e3 ubiquitin-protein ligase smurf2; PDBTitle: solution structure of the c2 domain of human smurf2
104	c2b3rA	Alignment	not modelled	99.1	19	PDB header: transferase Chain: A: PDB Molecule: phosphatidylinositol-4-phosphate 3-kinase c2 domain- PDBTitle: crystal structure of the c2 domain of class ii phosphatidylinositide2 3-kinase c2
105	c1dqvA	Alignment	not modelled	99.1	26	PDB header: endocytosis/exocytosis Chain: A: PDB Molecule: synaptotagmin iii; PDBTitle: crystal structure of synaptotagmin iii c2a/c2b
106	d1jwoa	Alignment	not modelled	99.1	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
107	d1fu6a	Alignment	not modelled	99.1	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
						PDB header: transferase

108	c2ablA_	Alignment	not modelled	99.1	27	Chain: A: PDB Molecule: abl tyrosine kinase; PDBTitle: sh3-sh2 domain fragment of human bcr-abl tyrosine kinase
109	d1rsya_	Alignment	not modelled	99.1	29	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: Synaptotagmin-like (S variant)
110	d1wfma_	Alignment	not modelled	99.1	16	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: Synaptotagmin-like (S variant)
111	d1opka2	Alignment	not modelled	99.1	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
112	d1qcfa2	Alignment	not modelled	99.1	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
113	c2d8kA_	Alignment	not modelled	99.1	28	PDB header: endocytosis/exocytosis Chain: A: PDB Molecule: synaptotagmin vii; PDBTitle: solution structure of the first c2 domain of synaptotagmin2 vii
114	d2shpa3	Alignment	not modelled	99.1	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
115	d2eyva1	Alignment	not modelled	99.1	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
116	c2kk6A_	Alignment	not modelled	99.1	29	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
117	d1mila_	Alignment	not modelled	99.1	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
118	c2r83B_	Alignment	not modelled	99.1	25	PDB header: endocytosis, exocytosis Chain: B: PDB Molecule: synaptotagmin-1; PDBTitle: crystal structure analysis of human synaptotagmin 1 c2a-c2b
119	c2dcrA_	Alignment	not modelled	99.1	22	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
120	c3nhnA_	Alignment	not modelled	99.1	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