



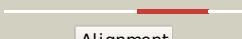




























Phyre2

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Description	Q81R23
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Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3bxjB_	 Alignment		100.0	24	PDB header: signaling protein Chain: B: PDB Molecule: ras gtpase-activating protein syngap; PDBTitle: crystal structure of the c2-gap fragment of syngap
2	d1wera_	 Alignment		100.0	49	Fold: GTPase activation domain, GAP Superfamily: GTPase activation domain, GAP Family: p120GAP domain-like
3	c3fayA_	 Alignment		100.0	17	PDB header: membrane protein Chain: A: PDB Molecule: ras gtpase-activating-like protein iqgap1; PDBTitle: crystal structure of the gap-related domain of iqgap1
4	d1nfla_	 Alignment		100.0	27	Fold: GTPase activation domain, GAP Superfamily: GTPase activation domain, GAP Family: p120GAP domain-like
5	c2b3oA_	 Alignment		100.0	29	PDB header: hydrolase Chain: A: PDB Molecule: tyrosine-protein phosphatase, non-receptor type PDBTitle: crystal structure of human tyrosine phosphatase shp-1
6	c2shpA_	 Alignment		100.0	32	PDB header: tyrosine phosphatase Chain: A: PDB Molecule: shp-2; PDBTitle: tyrosine phosphatase shp-2
7	c3ps5A_	 Alignment		100.0	30	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
8	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
9	c4fl2A_	 Alignment		100.0	24	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase syk; PDBTitle: structural and biophysical characterization of the syk activation2 switch
10	c2ozoA_	 Alignment		100.0	24	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: autoinhibited intact human zap-70
11	c3gqiB_	 Alignment		100.0	31	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

12	c1a81E_	Alignment		100.0	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
13	c2xp1A_	Alignment		99.9	16	PDB header: transcription Chain: A: PDB Molecule: spt6; PDBTitle: structure of the tandem sh2 domains from antonospora locustae2 transcription elongation factor spt6
14	c3or8A_	Alignment		99.9	18	PDB header: transcription Chain: A: PDB Molecule: transcription elongation factor spt6; PDBTitle: a tandem sh2 domain in transcription elongation factor spt6
15	c3hizB_	Alignment		99.9	23	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
16	c2fo0A_	Alignment		99.9	23	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
17	c2ablA_	Alignment		99.9	25	PDB header: transferase Chain: A: PDB Molecule: abl tyrosine kinase; PDBTitle: sh3-sh2 domain fragment of human bcr-abl tyrosine kinase
18	c1k9aB_	Alignment		99.9	24	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
19	c2lqnA_	Alignment		99.9	17	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of crkl
20	c2gsbA_	Alignment		99.9	48	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
21	c1oplA_	Alignment	not modelled	99.9	23	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase; PDBTitle: structural basis for the auto-inhibition of c-abl tyrosine2 kinase
22	d2oq1a1	Alignment	not modelled	99.9	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
23	c2eobA_	Alignment	not modelled	99.9	25	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
24	c1x27F_	Alignment	not modelled	99.9	25	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
25	d2oq1a2	Alignment	not modelled	99.9	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
26	c2y3aB_	Alignment	not modelled	99.9	21	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
27	c3nhnA_	Alignment	not modelled	99.9	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
28	d1a81a1	Alignment	not modelled	99.9	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

29	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
30	c1y57A	Alignment	not modelled	99.9	26	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: structure of unphosphorylated c-src in complex with an inhibitor
31	d1a81e2	Alignment	not modelled	99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
32	c2h8hA	Alignment	not modelled	99.9	27	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: src kinase in complex with a quinazoline inhibitor
33	c2eo3A	Alignment	not modelled	99.9	26	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of the sh2 domain from human crk-like2 protein
34	d2fcia1	Alignment	not modelled	99.9	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
35	d1nrva	Alignment	not modelled	99.9	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
36	d1pica	Alignment	not modelled	99.9	22	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
37	c2c0iA	Alignment	not modelled	99.9	28	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase hck; PDBTitle: src family kinase hck with bound inhibitor a-420983
38	c2eo6A	Alignment	not modelled	99.9	22	PDB header: signaling protein Chain: A: PDB Molecule: b-cell linker protein; PDBTitle: solution structure of the sh2 domain from mouse b-cell12 linker protein blk
39	d1a81a2	Alignment	not modelled	99.9	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
40	c2ysxA	Alignment		99.9	32	PDB header: signaling protein Chain: A: PDB Molecule: signaling inositol polyphosphate phosphatase PDBTitle: solution structure of the human ship sh2 domain
41	d1a81e1	Alignment	not modelled	99.9	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
42	d2shpa2	Alignment	not modelled	99.8	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
43	d1fhSA	Alignment	not modelled	99.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
44	c2dlyA	Alignment	not modelled	99.8	25	PDB header: transferase Chain: A: PDB Molecule: fyn-related kinase; PDBTitle: solution structure of the sh2 domain of murine fyn-related2 kinase
45	c1g83A	Alignment	not modelled	99.8	29	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase fyn; PDBTitle: crystal structure of fyn sh3-sh2
46	d1jwoa	Alignment	not modelled	99.8	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
47	d1csya	Alignment	not modelled	99.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
48	c2ci8A	Alignment	not modelled	99.8	30	PDB header: translation Chain: A: PDB Molecule: cytoplasmic protein nck1; PDBTitle: sh2 domain of human nck1 adaptor protein - uncomplexed
49	d3c7ia1	Alignment	not modelled	99.8	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
50	c2crhA	Alignment	not modelled	99.8	16	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
51	c2dlzA	Alignment	not modelled	99.8	18	PDB header: signaling protein Chain: A: PDB Molecule: protein vav-2; PDBTitle: solution structure of the sh2 domain of human protein vav-2
52	d1opka2	Alignment	not modelled	99.8	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
53	c1ka6A	Alignment	not modelled	99.8	23	PDB header: immune system Chain: A: PDB Molecule: sh2 domain protein 1a; PDBTitle: sap/sh2d1a bound to peptide n-py
						Fold: SH2-like

54	d1k9aa2	Alignment	not modelled	99.8	29	Superfamily: SH2 domain Family: SH2 domain
55	d1rjaa	Alignment	not modelled	99.8	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
56	c1x6cA	Alignment	not modelled	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
57	d2izva2	Alignment	not modelled	99.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
58	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
59	c2lctA	Alignment	not modelled	99.8	17	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
60	d1qada	Alignment	not modelled	99.8	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
61	d2eyva1	Alignment	not modelled	99.8	34	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
62	d1lkka	Alignment	not modelled	99.8	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
63	d1o48a	Alignment	not modelled	99.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
64	d1i3za	Alignment	not modelled	99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
65	d1d4ta	Alignment	not modelled	99.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
66	c2ge9A	Alignment	not modelled	99.8	29	PDB header: transferase Chain: A; PDB Molecule: tyrosine-protein kinase btk; PDBTitle: solution structures of the sh2 domain of bruton's tyrosine2 kinase
67	d1ayaa	Alignment	not modelled	99.8	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
68	d1blja	Alignment	not modelled	99.8	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
69	c2dviA	Alignment	not modelled	99.8	21	PDB header: signaling protein Chain: A; PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog, PDBTitle: phosphorylated crk-ii
70	d2qmsa1	Alignment	not modelled	99.8	20	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
71	d1bkla	Alignment	not modelled	99.8	34	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
72	c2kk6A	Alignment	not modelled	99.8	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
73	c2eyyA	Alignment	not modelled	99.8	26	PDB header: signaling protein Chain: A; PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform i
74	d1mila	Alignment	not modelled	99.8	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
75	d1qcfa2	Alignment	not modelled	99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
76	d1luia	Alignment	not modelled	99.8	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
77	d1r1qa	Alignment	not modelled	99.8	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
78	c2hnhA	Alignment	not modelled	99.8	20	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.
79	d2shpa3	Alignment	not modelled	99.8	37	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
80	c2knoA	Alignment	not modelled	99.8	29	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)
81	c2c9wA	Alignment	not modelled	99.8	22	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
82	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
83	c2dcrA	Alignment	not modelled	99.8	24	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
84	c2eyzA	Alignment	not modelled	99.8	19	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform ii
85	d1f2fa	Alignment	not modelled	99.8	34	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
86	d1jyra	Alignment	not modelled	99.8	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
87	d1g83a2	Alignment	not modelled	99.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
88	c2vifA	Alignment	not modelled	99.8	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
89	d2cs0a1	Alignment	not modelled	99.8	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
90	c2izvA	Alignment	not modelled	99.8	22	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
91	d1xa6a2	Alignment	not modelled	99.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
92	d1fu6a	Alignment	not modelled	99.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
93	c2ekxA	Alignment	not modelled	99.8	24	PDB header: signaling protein Chain: A: PDB Molecule: cytoplasmic tyrosine-protein kinase bmx; PDBTitle: solution structure of the human bmx sh2 domain
94	d1rpya	Alignment	not modelled	99.8	19	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
95	c3mazA	Alignment	not modelled	99.8	15	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
96	c3qwxX	Alignment	not modelled	99.8	18	PDB header: signaling protein Chain: X: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2 1-174
97	d1cwea	Alignment	not modelled	99.8	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
98	c1rqQC	Alignment	not modelled	99.8	22	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
99	c3qwyA	Alignment	not modelled	99.8	18	PDB header: signaling protein Chain: A: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2
100	c2dm0A	Alignment	not modelled	99.7	25	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
101	d2c9wa2	Alignment	not modelled	99.7	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
102	c3gxxB	Alignment	not modelled	99.7	22	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
103	c2cr4A	Alignment	not modelled	99.7	21	PDB header: signaling protein Chain: A: PDB Molecule: sh3 domain-binding protein 2; PDBTitle: solution structure of the sh2 domain of human sh3bp2 protein
104	d2cjta1	Alignment		99.7	20	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
						Fold: C2 domain-like

105	d1gmia_	Alignment		99.7	29	Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
106	c2fk9A_	Alignment		99.6	31	PDB header: transferase Chain: A: PDB Molecule: protein kinase c, eta type; PDBTitle: human protein kinase c, eta
107	c3m7fB_	Alignment		99.6	22	PDB header: signaling protein/ligase Chain: B: PDB Molecule: e3 ubiquitin-protein ligase nedd4; PDBTitle: crystal structure of the nedd4 c2/grb10 sh2 complex
108	c3l9bA_	Alignment	not modelled	99.6	13	PDB header: membrane protein Chain: A: PDB Molecule: otoferlin; PDBTitle: crystal structure of rat otoferlin c2a
109	c2dx0B_	Alignment	not modelled	99.6	32	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
110	c2r09A_	Alignment		99.6	23	PDB header: signaling protein Chain: A: PDB Molecule: cytohesin-3; PDBTitle: crystal structure of autoinhibited form of grp1 arf gtpase exchange2 factor
111	c2d9zA_	Alignment		99.6	20	PDB header: signaling protein Chain: A: PDB Molecule: protein kinase c, nu type; PDBTitle: solution structure of the ph domain of protein kinase c, nu2 type from human
112	d2dyna_	Alignment		99.5	16	Fold: PH domain-like barrel Superfamily: PH domain-like Family: Pleckstrin-homology domain (PH domain)
113	d2fjla1	Alignment		99.5	17	Fold: PH domain-like barrel Superfamily: PH domain-like Family: Pleckstrin-homology domain (PH domain)
114	d2coaa1	Alignment		99.5	22	Fold: PH domain-like barrel Superfamily: PH domain-like Family: Pleckstrin-homology domain (PH domain)
115	c1xa6A_	Alignment	not modelled	99.5	31	PDB header: signaling protein Chain: A: PDB Molecule: beta2-chimaerin; PDBTitle: crystal structure of the human beta2-chimaerin
116	d2cjsa1	Alignment		99.5	21	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
117	c3kwtA_	Alignment		99.5	21	PDB header: metal binding protein Chain: A: PDB Molecule: munc13-1; PDBTitle: munc13-1 c2b-domain, calcium-free
118	d1qasa2	Alignment	not modelled	99.5	17	Fold: C2 domain-like Superfamily: C2 domain (Calcium/lipid-binding domain, CaLB) Family: PLC-like (P variant)
119	c2q3xA_	Alignment	not modelled	99.5	25	PDB header: transport protein Chain: A: PDB Molecule: regulating synaptic membrane exocytosis protein 1; PDBTitle: the rim1alpha c2b domain
120	c2nsgA_	Alignment	not modelled	99.5	26	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