







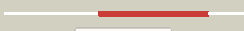












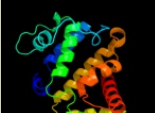











Phyre2

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Description	P26450
Date	Tue Jul 30 13:13:01 BST 2013
Unique Job ID	cf772db9c7f96cb5

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	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
3	c2ozoA_	 Alignment		100.0	24	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: autoinhibited intact human zap-70
4	c1xa6A_	 Alignment		100.0	25	PDB header: signaling protein Chain: A: PDB Molecule: beta2-chimaerin; PDBTitle: crystal structure of the human beta2-chimaerin
5	c2b3oA_	 Alignment		100.0	36	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	29	PDB header: tyrosine phosphatase Chain: A: PDB Molecule: shp-2; PDBTitle: tyrosine phosphatase shp-2
7	c1pbwB_	 Alignment		100.0	89	PDB header: phosphotransferase Chain: B: PDB Molecule: phosphatidylinositol 3-kinase; PDBTitle: structure of bcr-homology (bh) domain
8	c1a81E_	 Alignment		100.0	31	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
9	c3ps5A_	 Alignment		100.0	36	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	c2y3aB_	 Alignment		100.0	76	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
11	d1pbwa_	 Alignment		100.0	88	Fold: GTPase activation domain, GAP Superfamily: GTPase activation domain, GAP Family: BCR-homology GTPase activation domain (BH-domain)

12	c3gqiB_	Alignment		100.0	34	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
13	c3kuqA_	Alignment		100.0	19	PDB header: hydrolase activator Chain: A: PDB Molecule: rho gtpase-activating protein 7; PDBTitle: crystal structure of the dlc1 rhogap domain
14	c3byiA_	Alignment		100.0	22	PDB header: signaling protein Chain: A: PDB Molecule: rho gtpase activating protein 15; PDBTitle: crystal structure of human rho gtpase activating protein 15 (arhgap15)
15	d1tx4a_	Alignment		100.0	17	Fold: GTPase activation domain, GAP Superfamily: GTPase activation domain, GAP Family: BCR-homology GTPase activation domain (BH-domain)
16	c2ee5A_	Alignment		100.0	23	PDB header: hydrolase Chain: A: PDB Molecule: rho gtpase activating protein 5 variant; PDBTitle: solution structure of the n-terminus extended rhogap2 domain from human rho gtpase activating protein 5 variant
17	c3iugA_	Alignment		100.0	22	PDB header: splicing Chain: A: PDB Molecule: rho/cdc42/rac gtpase-activating protein rics; PDBTitle: crystal structure of the rhogap domain of rics
18	d1xa6a1	Alignment		100.0	27	Fold: GTPase activation domain, GAP Superfamily: GTPase activation domain, GAP Family: BCR-homology GTPase activation domain (BH-domain)
19	c2ngrB_	Alignment		100.0	16	PDB header: hydrolase Chain: B: PDB Molecule: protein (gtpase activating protein (rhg)); PDBTitle: transition state complex for gtp hydrolysis by cdc42:2 comparisons of the high resolution structures for cdc423 bound to the active and catalytically compromised forms of4 the cdc42-gap.
20	c3qjsA_	Alignment		100.0	23	PDB header: hydrolase/protein binding Chain: A: PDB Molecule: inositol polyphosphate 5-phosphatase ocr1; PDBTitle: recognition of the f&h motif by the lowe syndrome protein ocr1
21	c2ovjA_	Alignment	not modelled	100.0	21	PDB header: signaling protein Chain: A: PDB Molecule: rac gtpase-activating protein 1; PDBTitle: the crystal structure of the human rac gtpase activating protein 12 (racgap1) mgcracgap.
22	c3hizB_	Alignment	not modelled	100.0	99	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
23	c3fk2B_	Alignment	not modelled	100.0	22	PDB header: signaling protein, hydrolase activator Chain: B: PDB Molecule: glucocorticoid receptor dna-binding factor 1; PDBTitle: crystal structure of the rhogap domain of human2 glucocorticoid receptor dna-binding factor 1
24	c2xs6A_	Alignment	not modelled	100.0	36	PDB header: transferase Chain: A: PDB Molecule: phosphatidylinositol 3-kinase regulatory subunit beta; PDBTitle: crystal structure of the rhogap domain of human pik3r2
25	c1f7cA_	Alignment	not modelled	100.0	21	PDB header: signaling protein Chain: A: PDB Molecule: rhogap protein; PDBTitle: crystal structure of the bh domain from graf, the gtpase2 regulator associated with focal adhesion kinase
26	d1f7ca_	Alignment	not modelled	100.0	21	Fold: GTPase activation domain, GAP Superfamily: GTPase activation domain, GAP Family: BCR-homology GTPase activation domain (BH-domain)
27	c3msxB_	Alignment	not modelled	100.0	22	PDB header: protein binding Chain: B: PDB Molecule: rho gtpase-activating protein 20; PDBTitle: crystal structure of rhoa.gdp.mgf3 in complex with gap domain of2 arhgap20 PDB header: hydrolase Chain: A: PDB Molecule: inositol polyphosphate 5-phosphatase ocr1-

28	c2qv2A_	Alignment	not modelled	100.0	22	1; PDBTitle: a role of the low syndrome protein oclr in early steps of2 the endocytic pathway
29	c3eapD_	Alignment	not modelled	100.0	18	PDB header: hydrolase activator Chain: D: PDB Molecule: rho gtpase-activating protein 11a; PDBTitle: crystal structure of the rhogap domain of arhgap11a
30	d1pica_	Alignment	not modelled	99.9	96	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
31	d1qada_	Alignment	not modelled	99.9	100	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
32	c1k9aB_	Alignment		99.9	33	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
33	d2oq1a1	Alignment	not modelled	99.9	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
34	c1oplA_	Alignment	not modelled	99.9	34	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase; PDBTitle: structural basis for the auto-inhibition of c-abl tyrosine2 kinase
35	d2oq1a2	Alignment	not modelled	99.9	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
36	c1y57A_	Alignment	not modelled	99.9	47	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: structure of unphosphorylated c-src in complex with an inhibitor
37	d1a81e2	Alignment	not modelled	99.9	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
38	c2crhA_	Alignment	not modelled	99.9	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
39	c2eo6A_	Alignment	not modelled	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 blk
40	d1a81a2	Alignment	not modelled	99.9	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
41	d1a81a1	Alignment	not modelled	99.9	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
42	c2ablA_	Alignment	not modelled	99.9	35	PDB header: transferase Chain: A: PDB Molecule: abl tyrosine kinase; PDBTitle: sh3-sh2 domain fragment of human bcr-abl tyrosine kinase
43	c2dlzA_	Alignment	not modelled	99.9	28	PDB header: signaling protein Chain: A: PDB Molecule: protein vav-2; PDBTitle: solution structure of the sh2 domain of human protein vav-2
44	c1x27F_	Alignment	not modelled	99.9	47	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	c2dlyA_	Alignment	not modelled	99.9	34	PDB header: transferase Chain: A: PDB Molecule: fyn-related kinase; PDBTitle: solution structure of the sh2 domain of murine fyn-related2 kinase
46	c2lctA_	Alignment	not modelled	99.9	33	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
47	d1qcfa2	Alignment	not modelled	99.9	35	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
48	c2fo0A_	Alignment	not modelled	99.9	34	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
49	c2ge9A_	Alignment	not modelled	99.8	33	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase btk; PDBTitle: solution structures of the sh2 domain of bruton's tyrosine2 kinase
50	d1csya_	Alignment	not modelled	99.8	28	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
51	d1a81e1	Alignment	not modelled	99.8	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
52	c2eobA_	Alignment	not modelled	99.8	32	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

53	d1lka_	Alignment	not modelled	99.8	36	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
54	d1opka2	Alignment	not modelled	99.8	36	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
55	d2shpa2	Alignment	not modelled	99.8	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
56	c2h8hA_	Alignment	not modelled	99.8	46	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: src kinase in complex with a quinazoline inhibitor
57	c3or8A_	Alignment	not modelled	99.8	28	PDB header: transcription Chain: A: PDB Molecule: transcription elongation factor spt6; PDBTitle: a tandem sh2 domain in transcription elongation factor spt6
58	d1k9aa2	Alignment	not modelled	99.8	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
59	d1jwoa_	Alignment	not modelled	99.8	24	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
60	c2ysxA_	Alignment	not modelled	99.8	34	PDB header: signaling protein Chain: A: PDB Molecule: signaling inositol polyphosphate phosphatase PDBTitle: solution structure of the human ship sh2 domain
61	d1bkla_	Alignment	not modelled	99.8	35	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
62	d1luia_	Alignment	not modelled	99.8	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
63	d1rjaa_	Alignment	not modelled	99.8	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
64	d1o48a_	Alignment	not modelled	99.8	34	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
65	c2gsbA_	Alignment	not modelled	99.8	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
66	c1ka6A_	Alignment	not modelled	99.8	28	PDB header: immune system Chain: A: PDB Molecule: sh2 domain protein 1a; PDBTitle: sap/sh2d1a bound to peptide n-py
67	d1nrva_	Alignment	not modelled	99.8	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
68	c2knoA_	Alignment	not modelled	99.8	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)
69	d1ayaa_	Alignment	not modelled	99.8	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
70	d1g83a2	Alignment	not modelled	99.8	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
71	c2vifA_	Alignment	not modelled	99.8	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
72	c2augB_	Alignment	not modelled	99.8	27	PDB header: signaling protein Chain: B: PDB Molecule: growth factor receptor-bound protein 14; PDBTitle: crystal structure of the grb14 sh2 domain
73	d2qmsa1	Alignment	not modelled	99.8	27	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
74	d1blja_	Alignment	not modelled	99.8	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
75	c2eo3A_	Alignment	not modelled	99.8	31	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of the sh2 domain from human crk-like2 protein
76	c1x6cA_	Alignment	not modelled	99.8	32	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
77	d1f2fa_	Alignment	not modelled	99.8	37	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
78	d3c7ia1	Alignment	not modelled	99.8	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
79	d2izva2	Alignment	not modelled	99.8	26	Fold: SH2-like Superfamily: SH2 domain

						Family: SH2 domain
80	d1d4ta_	Alignment	not modelled	99.8	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
81	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
82	c2lqnA_	Alignment	not modelled	99.8	29	PDB header: signaling protein Chain: A: PDB Molecule: crk-like protein; PDBTitle: solution structure of crkl
83	c2hdxB_	Alignment	not modelled	99.8	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
84	d1i3za_	Alignment	not modelled	99.8	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
85	c3nhnA_	Alignment	not modelled	99.8	34	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
86	d2cs0a1	Alignment	not modelled	99.8	25	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
87	c2hmhA_	Alignment	not modelled	99.8	22	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.
88	d2shpa3	Alignment	not modelled	99.8	32	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
89	d2eyva1	Alignment	not modelled	99.8	34	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
90	d1fhsa_	Alignment	not modelled	99.8	31	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
91	d1cwea_	Alignment	not modelled	99.8	38	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
92	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
93	d1fu6a_	Alignment	not modelled	99.8	99	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
94	d1r1qa_	Alignment	not modelled	99.8	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
95	c2xp1A_	Alignment	not modelled	99.8	13	PDB header: transcription Chain: A: PDB Molecule: spt6; PDBTitle: structure of the tandem sh2 domains from antonospora locustae2 transcription elongation factor spt6
96	d2fcia1	Alignment	not modelled	99.8	30	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
97	c2c9wA_	Alignment	not modelled	99.8	23	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
98	c1g83A_	Alignment	not modelled	99.8	34	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase fyn; PDBTitle: crystal structure of fyn sh3-sh2
99	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 ntal ptyr136 peptide
100	c2ci8A_	Alignment	not modelled	99.8	26	PDB header: translation Chain: A: PDB Molecule: cytoplasmic protein nck1; PDBTitle: sh2 domain of human nck1 adaptor protein - uncomplexed
101	c2c0iA_	Alignment	not modelled	99.8	32	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase hck; PDBTitle: src family kinase hck with bound inhibitor a-420983
102	c2izvA_	Alignment	not modelled	99.8	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
103	c2dcrA_	Alignment	not modelled	99.8	27	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
104	d1jyra_	Alignment	not modelled	99.8	33	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
105	d1mila_	Alignment	not modelled	99.7	26	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain

106	d2c9wa2	Alignment	not modelled	99.7	23	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
107	c2kk6A	Alignment	not modelled	99.7	34	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
108	c3gxxB	Alignment	not modelled	99.7	23	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
109	c2el8A	Alignment	not modelled	99.7	19	PDB header: signaling protein Chain: A: PDB Molecule: signal-transducing adaptor protein 2; PDBTitle: solution structure of the human stap2 sh2 domain
110	d1xa6a2	Alignment	not modelled	99.7	29	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
111	c2dx0B	Alignment	not modelled	99.7	37	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
112	d1rpya	Alignment	not modelled	99.7	21	Fold: SH2-like Superfamily: SH2 domain Family: SH2 domain
113	c2cr4A	Alignment	not modelled	99.7	24	PDB header: signaling protein Chain: A: PDB Molecule: sh3 domain-binding protein 2; PDBTitle: solution structure of the sh2 domain of human sh3bp2 protein
114	c1rqQC	Alignment	not modelled	99.6	23	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
115	c2eyzA	Alignment	not modelled	99.6	31	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform ii
116	c3qwxX	Alignment	not modelled	99.6	23	PDB header: signaling protein Chain: X: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2 1-174
117	c3qwyA	Alignment	not modelled	99.6	24	PDB header: signaling protein Chain: A: PDB Molecule: cell death abnormality protein 2; PDBTitle: ced-2
118	c2dvjA	Alignment	not modelled	99.6	37	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog, PDBTitle: phosphorylated crk-ii
119	c2v1yB	Alignment	not modelled	99.6	96	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
120	c2eyyA	Alignment	not modelled	99.6	27	PDB header: signaling protein Chain: A: PDB Molecule: v-crk sarcoma virus ct10 oncogene homolog PDBTitle: ct10-regulated kinase isoform i