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The eukaryotic protein kinase superfamily: kinase (catalytic) domain structure and classification<sup>1</sup>

DOI: 10.1096/fasebj.9.8.7768349  
FASEB Journal, 1995, 9, 576-596.

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2372	Editorial Oncologic, Endocrine & Metabolic: The current status of tyrosine kinase inhibitors: Do the diarylamine inhibitors of the EGF receptor represent a new beginning?. <b>1995</b> , 5, 1245-1257		20
2371	Transcriptional control by protein phosphorylation: signal transmission from the cell surface to the nucleus. <b>1995</b> , 5, 747-57		665
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2010	Interaction of a kinesin-like calmodulin-binding protein with a protein kinase. <b>2000</b> , 275, 13737-45	37	
2009	Regulation of protein kinase D by multisite phosphorylation. Identification of phosphorylation sites by mass spectrometry and characterization by site-directed mutagenesis. <b>2000</b> , 275, 19567-76	72	
2008	A novel human gene similar to the protein kinase (PK) coding domain of the large subunit of herpes simplex virus type 2 ribonucleotide reductase (ICP10) codes for a serine-threonine PK and is expressed in melanoma cells. <b>2000</b> , 275, 25690-9	78	
2007	Nuclear accumulation of IE62, the varicella-zoster virus (VZV) major transcriptional regulatory protein, is inhibited by phosphorylation mediated by the VZV open reading frame 66 protein kinase. <b>2000</b> , 74, 2265-77	76	
2006	Further analysis of maize C(4) pyruvate, orthophosphate dikinase phosphorylation by its bifunctional regulatory protein using selective substitutions of the regulatory Thr-456 and catalytic His-458 residues. <b>2000</b> , 375, 165-70	30	
2005	Two expressed soybean genes with high sequence identity to tomato Pti1 kinase lack autophosphorylation activity. <b>2000</b> , 383, 233-7	7	
2004	Characterization of hPRP4 kinase activation: potential role in signaling. <b>2000</b> , 271, 456-63	14	
2003	Isolation and characterization of two evolutionarily conserved murine kinases (Nek6 and nek7) related to the fungal mitotic regulator, NIMA. <b>2000</b> , 68, 187-96	44	
2002	Analysis and prediction of functional sub-types from protein sequence alignments. <i>Journal of Molecular Biology</i> , <b>2000</b> , 303, 61-76	6.5	222
2001	Congenital hereditary lymphedema caused by a mutation that inactivates VEGFR3 tyrosine kinase. <b>2000</b> , 67, 295-301	338	
2000	A minimal serine/threonine protein kinase circadianly regulates phosphoenolpyruvate carboxylase activity in crassulacean acid metabolism-induced leaves of the common ice plant. <b>2000</b> , 123, 1471-82	103	
1999	Fray, a Drosophila serine/threonine kinase homologous to mammalian PASK, is required for axonal ensheathment. <b>2000</b> , 28, 793-806	101	
1998	The regulation of phosphoenolpyruvate carboxylase in CAM plants. <b>2000</b> , 5, 75-80	203	
1997	The activation loop of phosphatidylinositol phosphate kinases determines signaling specificity. <b>2000</b> , 5, 1-11	177	
1996	A genetic link between morphogenesis and cell division during formation of the ventral furrow in Drosophila. <b>2000</b> , 101, 523-31	281	

1995	Molecular cloning of MINK, a novel member of mammalian GCK family kinases, which is up-regulated during postnatal mouse cerebral development. <b>2000</b> , 469, 19-23	50
1994	Regulation of abscisic acid-induced stomatal closure and anion channels by guard cell AAPK kinase. <b>2000</b> , 287, 300-3	394
1993	Positional syntenic cloning and functional characterization of the mammalian circadian mutation tau. <b>2000</b> , 288, 483-92	712
1992	Vascular $\beta$ -adrenoceptor function in hypertension and in ageing. <b>2000</b> , 78, 433-452	43
1991	Selective tyrosine kinase inhibitors. <b>2000</b> , 5, 287-297	8
1990	Cooperative modulation of protein kinase CK2 by separate domains of its regulatory beta-subunit. <b>2000</b> , 39, 12324-9	23
1989	Mapping the functional domains of elongation factor-2 kinase. <b>2000</b> , 39, 12216-24	55
1988	Catalytic assessment of the glycine-rich loop of the v-Fps oncoprotein using site-directed mutagenesis. <b>2000</b> , 39, 13276-84	18
1987	Serine-53 at the tip of the glycine-rich loop of cAMP-dependent protein kinase: role in catalysis, P-site specificity, and interaction with inhibitors. <b>2000</b> , 39, 8325-32	64
1986	FIST/HIPK3: a Fas/FADD-interacting serine/threonine kinase that induces FADD phosphorylation and inhibits Fas-mediated Jun NH(2)-terminal kinase activation. <b>2000</b> , 192, 1165-74	92
1985	PIKfyve lipid kinase is a protein kinase: downregulation of 5'-phosphoinositide product formation by autophosphorylation. <b>2000</b> , 39, 15980-9	49
1984	Tyrosine kinase inhibitors targeted to the epidermal growth factor receptor subfamily: role as anticancer agents. <b>2000</b> , 59, 753-67	127
1983	Selective attenuation of metabolic branch of insulin receptor down-signaling by high glucose in a hepatoma cell line, HepG2 cells. <b>2000</b> , 275, 20880-6	83
1982	Plant protein-serine/threonine kinases: Classification into subfamilies and overview of function. <b>2000</b> , 32, 1-44	8
1981	The health benefits of wine. <b>2000</b> , 20, 561-93	326
1980	Structure-based generation of a new class of potent Cdk4 inhibitors: new de novo design strategy and library design. <b>2001</b> , 44, 4615-27	219
1979	Phototropins: a new family of flavin-binding blue light receptors in plants. <b>2001</b> , 3, 775-88	73
1978	Comparative QSAR study of tyrosine kinase inhibitors. <b>2001</b> , 101, 2573-600	37

1977	Structural analyses of nucleotide binding to an aminoglycoside phosphotransferase. <b>2001</b> , 40, 8756-64		93
1976	Mechanistic effects of autophosphorylation on receptor tyrosine kinase catalysis: enzymatic characterization of Tie2 and phospho-Tie2. <b>2001</b> , 40, 10243-53		36
1975	The cohesin complex: sequence homologies, interaction networks and shared motifs. <b>2001</b> , 2, RESEARCH0009		22
1974	A novel approach for the development of selective Cdk4 inhibitors: library design based on locations of Cdk4 specific amino acid residues. <b>2001</b> , 44, 4628-40		127
1973	Arabidopsis NPL1: a phototropin homolog controlling the chloroplast high-light avoidance response. <b>2001</b> , 291, 2138-41		566
1972	Kinetic and catalytic mechanisms of protein kinases. <b>2001</b> , 101, 2271-90		469
1971	Dynamics of cAMP-dependent protein kinase. <b>2001</b> , 101, 2243-70		325
1970	Lithium inhibits glycogen synthase kinase-3 by competition for magnesium. <b>2001</b> , 280, 720-5		406
1969	PKCdelta and zeta mediate IL-4/IL-13-induced germline epsilon transcription in human B cells: a putative regulation via PU.1 phosphorylation. <b>2001</b> , 288, 34-41		16
1968	Indirubins inhibit glycogen synthase kinase-3 beta and CDK5/p25, two protein kinases involved in abnormal tau phosphorylation in Alzheimer's disease. A property common to most cyclin-dependent kinase inhibitors?. <b>2001</b> , 276, 251-60		546
1967	Tea flavonoids: bioavailability in vivo and effects on cell signaling pathways in vitro. <b>2001</b> , 3, 1009-21		78
1966	TaCRK3 encodes a novel <i>Theileria annulata</i> protein kinase with motifs characteristic of the family of eukaryotic cyclin dependent kinases: a comparative analysis of its expression with TaCRK2 during the parasite life cycle. <i>Gene</i> , <b>2001</b> , 279, 127-35	3.8	3
1965	A novel serine/threonine kinase gene, STK33, on human chromosome 11p15.3. <i>Gene</i> , <b>2001</b> , 280, 175-81	3.8	29
1964	Sponge homologs of vertebrate protein tyrosine kinases and frequent domain shufflings in the early evolution of animals before the parazoan-eumetazoan split. <i>Gene</i> , <b>2001</b> , 280, 195-201	3.8	39
1963	Expression of the <i>Daucus carota</i> somatic embryogenesis receptor kinase (DcSERK) protein in insect cells. <b>2001</b> , 83, 415-21		16
1962	Ancient origin of pathogen recognition specificity conferred by the tomato disease resistance gene <i>Pto</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 2059-64	11.5	61
1961	zyg-8, a gene required for spindle positioning in <i>C. elegans</i> , encodes a doublecortin-related kinase that promotes microtubule assembly. <b>2001</b> , 1, 363-75		80
1960	The Peutz-Jegher gene product LKB1 is a mediator of p53-dependent cell death. <b>2001</b> , 7, 1307-19		253



1959	Selectivity of 4,5,6,7-tetrabromobenzotriazole, an ATP site-directed inhibitor of protein kinase CK2 ('casein kinase-2'). <b>2001</b> , 496, 44-8	290
1958	Identification of a functional destruction box in the <i>Xenopus laevis</i> aurora-A kinase pEg2. <b>2001</b> , 508, 149-52	41
1957	A point mutant of human sphingosine kinase 1 with increased catalytic activity. <b>2001</b> , 509, 169-73	14
1956	Blue light sensing in higher plants. <b>2001</b> , 276, 11457-60	135
1955	Increased backbone flexibility in threonine45-phosphorylated hirudin upon pH change. <b>2001</b> , 40, 7957-63	10
1954	Functional inactivation of the human guanylyl cyclase C receptor: modeling and mutation of the protein kinase-like domain. <b>2001</b> , 40, 9196-206	29
1953	Regulation of protein kinase B/Akt-serine 473 phosphorylation by integrin-linked kinase: critical roles for kinase activity and amino acids arginine 211 and serine 343. <b>2001</b> , 276, 27462-9	391
1952	TRP-PLIK, a bifunctional protein with kinase and ion channel activities. <b>2001</b> , 291, 1043-7	593
1951	Functional analysis of the interleukin-1-receptor-associated kinase (IRAK-1) in interleukin-1 beta-stimulated nuclear factor kappa B (NF-kappa B) pathway activation: IRAK-1 associates with the NF-kappa B essential modulator (NEMO) upon receptor stimulation. <b>2001</b> , 359, 403-10	20
1950	HstK, a cyanobacterial protein with both a serine/threonine kinase domain and a histidine kinase domain: implication for the mechanism of signal transduction. <b>2001</b> , 360, 639-44	18
1949	Identification and characterization of a novel sucrose-non-fermenting protein kinase/AMP-activated protein kinase-related protein kinase, SNARK. <b>2001</b> , 355, 297-305	54
1948	Functional analysis of the interleukin-1-receptor-associated kinase (IRAK-1) in interleukin-1-stimulated nuclear factor B (NF-B) pathway activation: IRAK-1 associates with the NF-B essential modulator (NEMO) upon receptor stimulation. <b>2001</b> , 359, 403-410	32
1947	HstK, a cyanobacterial protein with both a serine/threonine kinase domain and a histidine kinase domain: implication for the mechanism of signal transduction. <b>2001</b> , 360, 639-644	21
1946	Identification of centrosome kinases. <b>2001</b> , 67, 305-23	3
1945	Protein Kinases. <b>2001</b> ,	1
1944	TYK2 and JAK2 are substrates of protein-tyrosine phosphatase 1B. <b>2001</b> , 276, 47771-4	330
1943	Coevolution of the domains of cytoplasmic tyrosine kinases. <b>2001</b> , 18, 312-21	14
1942	Identification and characterization of CaMKP-N, nuclear calmodulin-dependent protein kinase phosphatase. <b>2001</b> , 130, 833-40	26

1941	Molecular response of the sponge <i>Suberites domuncula</i> to bacterial infection. <b>2001</b> , 139, 1037-1045	63
1940	A novel genetic screen identifies checkpoint-defective alleles of <i>Schizosaccharomyces pombe</i> chk1. <b>2001</b> , 38, 299-306	13
1939	Cloning and homology modelling of a Pto-like protein kinase family of common bean ( <i>Phaseolus vulgaris</i> L.). <b>2001</b> , 103, 1046-1058	35
1938	A novel gene expressed in human keratinocytes with long-term in vitro growth potential is required for cell growth. <b>2001</b> , 116, 286-95	17
1937	PEP carboxylase kinase is a novel protein kinase controlled at the level of expression. <b>2001</b> , 151, 91-97	30
1936	The CDPK superfamily of protein kinases. <b>2001</b> , 151, 175-183	163
1935	Characterization of PknC, a Ser/Thr kinase with broad substrate specificity from the cyanobacterium <i>Anabaena</i> sp. strain PCC 7120. <b>2001</b> , 268, 1869-1875	13
1934	Hsp90 chaperone complexes are required for the activity and stability of yeast protein kinases Mik1, Wee1 and Swe1. <b>2001</b> , 268, 2281-9	45
1933	A decade of site- and phosphorylation state-specific antibodies: recent advances in studies of spatiotemporal protein phosphorylation. <b>2001</b> , 6, 653-64	20
1932	Divergence pattern of animal gene families and relationship with the Cambrian explosion. <b>2001</b> , 23, 1018-27	78
1931	Mutations in the X-linked RSK2 gene (RPS6KA3) in patients with Coffin-Lowry syndrome. <b>2001</b> , 17, 103-16	76
1930	Interleukin-1 receptor-associated kinase-1 (IRAK-1): A self-regulatory adapter molecule in the signaling cascade of the Toll/IL-1 receptor family. <b>2001</b> , 1, 37-50	10
1929	Caged Thiophosphotyrosine Peptides. <b>2001</b> , 113, 3139-3141	9
1928	Caged thiophosphotyrosine peptides. <b>2001</b> , 40, 3049-51	36
1927	Protein kinase inhibitors: emerging pharmacophores 1997 - 2000. <b>2001</b> , 11, 405-429	64
1926	Cloning, characterization, and phylogenetic analysis of a shrimp white spot syndrome virus gene that encodes a protein kinase. <b>2001</b> , 289, 362-77	39
1925	A catalytic subunit of the sugar beet protein kinase CK2 is induced by salt stress and increases NaCl tolerance in <i>Saccharomyces cerevisiae</i> . <b>2001</b> , 47, 571-9	28
1924	Generation of mutants of CK2 which are dependent on the $\beta$ -subunit for catalytic activity. <b>2001</b> , 227, 13-19	7

1923	The genomic structure of two protein kinase CK2 genes of <i>Xenopus laevis</i> and features of the putative promoter region. <b>2001</b> , 227, 175-183	3
1922	Haspin-like proteins: a new family of evolutionarily conserved putative eukaryotic protein kinases. <b>2001</b> , 10, 1677-84	47
1921	Crystal structure of human protein kinase CK2: insights into basic properties of the CK2 holoenzyme. <b>2001</b> , 20, 5320-31	308
1920	The role of Plo1 kinase in mitotic commitment and septation in <i>Schizosaccharomyces pombe</i> . <b>2001</b> , 20, 1259-70	125
1919	On the origin of Ser/Thr kinases in a prokaryote. <b>2001</b> , 200, 79-84	23
1918	Structure of GSK3beta reveals a primed phosphorylation mechanism. <b>2001</b> , 8, 593-6	283
1917	A role for protein kinase CK2 in cell proliferation: evidence using a kinase-inactive mutant of CK2 catalytic subunit alpha. <b>2001</b> , 20, 2010-22	59
1916	WNK kinases, a novel protein kinase subfamily in multi-cellular organisms. <b>2001</b> , 20, 5562-9	209
1915	A role for the Adenomatous Polyposis Coli protein in chromosome segregation. <b>2001</b> , 3, 429-32	453
1914	Identification and cloning of Lmairk, a member of the Aurora/Ipl1p protein kinase family, from the human protozoan parasite <i>Leishmania</i> . <b>2001</b> , 1519, 241-5	12
1913	Applications of nylon membrane arrays to gene expression analysis. <b>2001</b> , 250, 3-13	18
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1911	The structure of phosphorylated GSK-3beta complexed with a peptide, FRATtide, that inhibits beta-catenin phosphorylation. <b>2001</b> , 9, 1143-52	163
1910	Regulation of surfactant secretion. <b>2001</b> , 129, 233-43	121
1909	A catalytically inactive mutant of type I cGMP-dependent protein kinase prevents enhancement of large conductance, calcium-sensitive K <sup>+</sup> channels by sodium nitroprusside and cGMP. <b>2001</b> , 276, 19729-37	40
1908	Regulation of Snf1 kinase. Activation requires phosphorylation of threonine 210 by an upstream kinase as well as a distinct step mediated by the Snf4 subunit. <b>2001</b> , 276, 36460-6	204
1907	PDK2: a complex tail in one Akt. <b>2001</b> , 2001, pe1	68
1906	Evolution of Osmosensory MAP Kinase Signaling Pathways1. <b>2001</b> , 41, 743-757	3

1905	BLNK mediates Syk-dependent Btk activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 2582-6	11.5	107
1904	Molecular cloning and characterization of the human NIMA-related protein kinase 3 gene (NEK3). <b>2001</b> , 95, 177-82		10
1903	Varicella-zoster virus ORF47 protein serine kinase: characterization of a cloned, biologically active phosphotransferase and two viral substrates, ORF62 and ORF63. <b>2001</b> , 75, 8854-8		62
1902	Identification and assignment of the human NIMA-related protein kinase 7 gene (NEK7) to human chromosome 1q31.3. <b>2001</b> , 94, 33-8		13
1901	Substrate specificity of Ca(2+)/calmodulin-dependent protein kinase phosphatase: kinetic studies using synthetic phosphopeptides as model substrates. <b>2001</b> , 129, 745-53		27
1900	A receptor tyrosine kinase from choanoflagellates: molecular insights into early animal evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 15032-7	11.5	174
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1898	Cloning and characterization of MST4, a novel Ste20-like kinase. <b>2001</b> , 276, 22439-45		50
1897	Cloning of human PRP4 reveals interaction with Clk1. <b>2001</b> , 276, 32247-56		54
1896	Structure of pyruvate dehydrogenase kinase. Novel folding pattern for a serine protein kinase. <b>2001</b> , 276, 37443-50		72
1895	Specific phosphorylation of threonine by the Dictyostelium myosin II heavy chain kinase family. <b>2001</b> , 276, 17836-43		28
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1893	The fused protein kinase regulates Hedgehog-stimulated transcriptional activation in Drosophila Schneider 2 cells. <b>2001</b> , 276, 38441-8		26
1892	Drosophila integrin-linked kinase is required at sites of integrin adhesion to link the cytoskeleton to the plasma membrane. <b>2001</b> , 152, 1007-18		240
1891	The Cbk1p pathway is important for polarized cell growth and cell separation in <i>Saccharomyces cerevisiae</i> . <b>2001</b> , 21, 2449-62		150
1890	Crystal structure of Bruton's tyrosine kinase domain suggests a novel pathway for activation and provides insights into the molecular basis of X-linked agammaglobulinemia. <b>2001</b> , 276, 41435-43		76
1889	Mitogen-activated protein [MAP] kinase pathways in plants: versatile signaling tools. <b>2001</b> , 201, 209-75		91
1888	Dynamic localization of the Swe1 regulator Hsl7 during the <i>Saccharomyces cerevisiae</i> cell cycle. <b>2001</b> , 12, 1645-69		75

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1883	Regulation of cAMP-dependent protein kinase activity by glutathionylation. <b>2002</b> , 277, 43505-11	145
1882	Pyruvate, orthophosphate dikinase in leaves and chloroplasts of C(3) plants undergoes light-/dark-induced reversible phosphorylation. <b>2002</b> , 128, 1368-78	61
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