

Kinase name	Enzyme - full name	Species	Accession number	Full 447 kinases	Human Only 430 kinases	Human Wild Type 390 kinases	Diversity 58 kinases
AAK1	adaptor-associated kinase 1	Human	GenBank NM_014911.2	○	○	○	
Abl	product of abl proto-oncogene	Human	GenBank U07563	○	○	○	○
Abl(H396P)	product of abl proto-oncogene(H396P mutant)	Human	GenBank U07563	○	○		
Abl(m)	product of abl proto-oncogene	Mouse	GenBank J02995	○			
Abl(M351T)	product of abl proto-oncogene(M351T mutant)	Human	GenBank U07563	○	○		
Abl(Q252H)	product of abl proto-oncogene(Q252H mutant)	Human	GenBank U07563	○	○		
Abl(T315I)	product of abl proto-oncogene(T315I mutant)	Human	GenBank U07563	○	○		
Abl(Y253F)	product of abl proto-oncogene(Y253F mutant)	Human	GenBank U07563	○	○		
ACK1	activated Cdc42-associated Kinase-1	Human	GenBank NM_005781	○	○	○	
ACTR2	activin A receptor type 2	Human	GenBank NM_001616.2	○	○	○	
ALK	anaplastic lymphoma kinase	Human	GenBank U62540	○	○	○	○
ALK1	activin receptor-like kinase-1	Human	GenBank L17075.1	○	○	○	
ALK2	activin receptor-like kinase-2	Human	GenBank NM_001105	○	○	○	
ALK4	activin receptor-like kinase-4	Human	GenBank NM_004302	○	○	○	
ALK6	activin receptor-like kinase-6	Human	GenBank NM_001203	○	○	○	
AMPKa1	AMP-activated protein kinase(a1, b1, g1)	Human	GenBank AF100763(a1)/GenBank NM_006253(b1)/GenBank NM_002733(g1)	○	○	○	○
AMPKa2	AMP-activated protein kinase(a2, b1, g1)	Human	GenBank NM_006252(a2)/GenBank NM_006253(b1)/GenBank NM_002733(g1)	○	○	○	
A-Raf	serine/threonine-protein kinase A-raf	Human	GenBank U01337.1	○	○	○	
Arg	product of Abl-related gene	Human	GenBank NM_005158	○	○	○	
Arg(m)	product of Abl-related gene	Mouse	GenBank XM_136360	○			
ARK5	AMP-activated protein kinase-related kinase-5	Human	GenBank NM_014840	○	○	○	
ASK1	apoptosis signal-regulating kinase-1	Human	GenBank NM_005923	○	○	○	○
ATM	Ataxia telangiectasia mutated	Human	GenBank NM_000051.3	○	○	○	
ATR/ATRIP	Ataxia telangiectasia and Rad3-related protein/ATR-interacting protein	Human	GenBank NM_001184.3(ATR)/GenBank AF451323.1(ATRIP)	○	○	○	
Aurora-A	Aurora-A kinase	Human	GenBank NM_003600	○	○	○	○
Aurora-B	Aurora-B kinase	Human	GenBank NM_004217	○	○	○	
Aurora-C	Aurora-C kinase	Human	GenBank AB017332	○	○	○	
Axl	product of axl proto-oncogene	Human	GenBank NM_021913	○	○	○	
BlKe	BMP2-inducible kinase	Human	GenBank NM_017593.3	○	○	○	
Blk	B lymphocyte kinase	Human	GenBank NM_001715	○	○	○	
Blk(m)	B lymphocyte kinase	Mouse	GenBank M30903	○			
BMPR2	bone morphogenetic protein receptor-2	Human	GenBank NM_001204.4	○	○	○	
Bmx	bone marrow tyrosine kinase in chromosome X	Human	GenBank NM_001721	○	○	○	
B-Raf	serine/threonine-protein kinase B-raf	Human	GenBank NM_004333	○	○	○	
B-Raf(V599E)	serine/threonine-protein kinase B-raf(V599E mutant)	Human	GenBank NM_004333	○	○		
BRK	breast tumor kinase	Human	GenBank NM_005975	○	○	○	
BrSK1	brain-selective kinase-1	Human	GenBank NM_032430	○	○	○	
BrSK2	brain-selective kinase-2	Human	GenBank AF533878	○	○	○	
BTK	Brutons tyrosine kinase	Human	GenBank NM_000061	○	○	○	
BTK(R28H)	Brutons tyrosine kinase(R28H mutant)	Human	GenBank NM_000061	○	○		
CaMKI	Ca/calmodulin-dependent protein kinase-I	Human	GenBank NM_003656	○	○	○	○
CaMKIb	Ca/calmodulin-dependent protein kinase-Ib	Human	GenBank XM_011531113.1	○	○	○	
CaMKId	Ca/calmodulin-dependent protein kinase-Id	Human	GenBank NM_153498	○	○	○	
CaMKIIb	Ca/calmodulin-dependent protein kinase-IIb	Human	GenBank AF081572	○	○	○	
CaMKIId	Ca/calmodulin-dependent protein kinase-IId	Human	GenBank NM_172115	○	○	○	
CaMKIIg	Ca/calmodulin-dependent protein kinase-IIg	Human	GenBank NM_172171	○	○	○	
CaMKIIα	Ca/calmodulin-dependent protein kinase-IIa	Human	GenBank AF091486.1	○	○	○	
CaMKIV	Ca/calmodulin-dependent protein kinase-IV	Human	GenBank D30742	○	○	○	
CaMKIγ	Ca/calmodulin-dependent protein kinase-Ig	Human	GenBank NM_020439.2	○	○	○	
CaMKK1	Ca/calmodulin-dependent protein kinase kinase-1	Human	GenBank NM_172206.1	○	○	○	
CaMKK2	Ca/calmodulin-dependent protein kinase kinase-2	Human	GenBank NM_172226	○	○	○	
Cdc7/cyclinB1	cell division cycle-7-related protein kinase/cyclinB1	Human	GenBank NM_003503.2(Cdc7)/GenBank NM_031966.3(cyclinB1)	○	○	○	
CDK1/cyclinB	cyclin-dependent protein kinase-1/cyclinB	Human	GenBank NM_001786(CDK1); SWISS-PROT P14635(cyclinB)	○	○	○	○
CDK12/cyclinK	cyclin-dependent protein kinase-12/cyclinK	Human	GenBank NM_016507(CDK12) / GenBank NM_001099402(Cyclin K)	○	○	○	
CDK14/cyclinY	cyclin-dependent protein kinase-14/cyclinY	Human	GenBank NM_012395.2(CDK14)/GenBank BC094815.1(cyclinY)	○	○	○	
CDK15/cyclinY	GST-CDK15-(hu,FL)/GST-Cyclin Y-(hu, FL)	Human	GenBank NM_139158.1(CDK15) / GenBank BC094815.1(cyclin Y)	○	○	○	
CDK16/cyclinY	cyclin-dependent protein kinase-16/cyclinY	Human	GenBank NM_033018.1(CDK16)/GenBank BC094815.1(cyclinY)	○	○	○	
CDK17/cyclinY	cyclin-dependent protein kinase-17/cyclinY	Human	GenBank BC033005.1(CDK17)/GenBank BC094815.1(cyclinY)	○	○	○	
CDK18/cyclinY	cyclin-dependent protein kinase-18/cyclinY	Human	GenBank NM_212502.1(CDK18)/GenBank BC094815.1(cyclinY)	○	○	○	
CDK2/cyclinA	cyclin-dependent protein kinase-2/cyclinA	Human	EMBL M68520(CDK2); EMBL X51688(cyclinA)	○	○	○	○
CDK2/cyclinE	cyclin-dependent protein kinase-2/cyclinE	Human	EMBL M68520(CDK2)/GenBank NM_001238(cyclinE)	○	○	○	

CDK3/cyclinE	cyclin-dependent protein kinase-3/cyclinE	Human	GenBank X66357(CDK3)/GenBank NM_001238(cyclinE)	○	○	○	
CDK4/cyclinD3	cyclin-dependent protein kinase-4/cyclinD3	Human	GenBank NM_000075.3(CDK4)/GenBank M90814.1(cyclinD3)	○	○	○	
CDK5/p25	cyclin-dependent protein kinase-5/p25	Human	GenBank X66364(CDK5)/GenBank X80343(p25)	○	○	○	
CDK5/p35	cyclin-dependent protein kinase-5/p35	Human	GenBank X66364(CDK5)/GenBank X80343(p35)	○	○	○	
CDK6/cyclinD3	cyclin-dependent protein kinase-6/cyclinD3	Human	GenBank X66365(CDK6)/EMBL M90814(cyclinD3)	○	○	○	○
CDK7/cyclinH/MAT1	cyclin-dependent protein kinase-7/cyclinH/MAT1	Human	GenBank X79193(CDK7)/GenBank U11791(cyclinH)/GenBank X87843(MAT1)	○	○	○	○
CDK9/cyclinT1	cyclin-dependent protein kinase-9/cyclinT1	Human	GenBank AF517840(CDK9)/GenBank NM_001240(cyclinT1)	○	○	○	○
CDKL1	cyclin-dependent kinase-like-1	Human	GenBank NM_004196.3	○	○	○	
CDKL2	cyclin-dependent kinase-like-2	Human	GenBank NM_003948.2	○	○	○	
CDKL3	cyclin-dependent kinase-like-3	Human	GenBank NM_016508.3	○	○	○	
CDKL4	cyclin-dependent kinase-like-4	Human	GenBank NM_001009565.1	○	○	○	
CDKL5	6His-CDKL5-(hu, 1-402)	Human	GenBank NM_003159.3	○	○	○	
ChaK1	channel kinase-1	Human	GenBank AY032950.1	○	○	○	
CHK1	checkpoint kinase-1	Human	SWISS-PROT O14757	○	○	○	○
CHK2	checkpoint kinase-2	Human	GenBank NP_009125	○	○	○	
CHK2(I157T)	checkpoint kinase-2(I157T mutant)	Human	GenBank NP_009125	○	○		
CHK2(R145W)	checkpoint kinase-2(R145W mutant)	Human	GenBank NP_009125	○	○		
CK1(y)	casein kinase-1	Yeast	GenBank A53581	○			
CK1d	casein kinase-1d	Human	GenBank AB063114	○	○	○	
CK1g1	casein kinase-1g1	Human	GenBank NM_022048	○	○	○	○
CK1g2	casein kinase-1g2	Human	GenBank NM_001319	○	○	○	
CK1g3	casein kinase-1g3	Human	GenBank NM_004384	○	○	○	
CK1a	casein kinase-1α	Human	GenBank L37042.1	○	○	○	
CK1ε	casein kinase-1ε	Human	GenBank NM_001894.4	○	○	○	
CK2	casein kinase-2	Human	EMBL J02853(alpha); GenBank NM_001320(beta)	○	○	○	
CK2a2	casein kinase-2a2	Human	GenBank NM_001896	○	○	○	○
CK2α1	casein kinase-2α1	Human	GenBank J02853.1	○	○	○	
c-Kit(D816H)	product of c-kit proto-oncogene(D816H mutant)	Human	GenBank X06182	○	○		
c-Kit(D816V)	product of c-kit proto-oncogene(D816V mutant)	Human	GenBank X06182	○	○		
c-Kit	product of c-kit proto-oncogene	Human	GenBank X06182	○	○	○	
c-Kit(V560G)	product of c-kit proto-oncogene(V560G mutant)	Human	GenBank X06182	○	○		
c-Kit(V654A)	product of c-kit proto-oncogene(V654A mutant)	Human	GenBank X06182	○	○		
CLIK1	CLP-36-interacting kinase-1	Human	GenBank NM_080836.2	○	○	○	
CLK1	cdc-like kinase-1	Human	GenBank NM_004071	○	○	○	
CLK2	cdc-like kinase-2	Human	GenBank NM_003993	○	○	○	
CLK3	cdc-like kinase-3	Human	GenBank NM_003992	○	○	○	
CLK4	cdc-like kinase-4	Human	GenBank NM_020666	○	○	○	
COT	Mitogen-activated protein kinase kinase kinase 8	Human	GenBank NM_005204.3	○	○	○	
c-RAF	cellular product of raf proto-oncogene	Human	SWISS-PROT P04049	○	○	○	○
CRIK	citron rho-interacting kinase	Human	GenBank NM_007174.2	○	○	○	
CSK	C-terminal Src kinase	Human	GenBank X60114	○	○	○	
CSNK1A1L	FLAG, 6His-CSNK1A1L-(hu,FL)	Human	GenBank NM_145203.6	○	○	○	
cSRC	cellular product of src oncogene	Human	SWISS-PROT P12931	○	○	○	
DAPK1	death-associated protein kinase-1	Human	GenBank NM_004938	○	○	○	
DAPK2	death-associated protein kinase-2	Human	GenBank NM_014326	○	○	○	
DCAMKL1	doublecortin and CAM kinase-like-1	Human	GenBank NM_004734.2	○	○	○	
DCAMKL2	doublecortin and CAM kinase-like-2	Human	GenBank NM_152619	○	○	○	
DCAMKL3	doublecortin and CAM kinase-like-3	Human	GenBank NM_033403.1	○	○	○	
DDR1	discoidin domain receptor-1	Human	GenBank U48705	○	○	○	
DDR2	discoidin domain receptor-2	Human	GenBank NM_006182	○	○	○	
DMPK	dystrophia myotonica protein kinase	Human	GenBank NM_004409	○	○	○	
DNA-PK	DNA-dependent protein kinase catalytic subunit	Human	GenBank NM_006904.6	○	○	○	
DRAK1	DAP kinase-related apoptosis-inducing protein kinase-1	Human	GenBank NM_004760	○	○	○	○
DRAK2	DAP kinase-related apoptosis-inducing protein kinase-2	Human	GenBank NM_004226.2	○	○	○	
DYRK1A	dual-specificity tyrosine phosphorylated and regulated protein kinase-1A	Human	GenBank NM_130436.2	○	○	○	
DYRK1B	dual-specificity tyrosine phosphorylated and regulated protein kinase-1B	Human	GenBank NM_004714.1	○	○	○	
DYRK2	dual-specificity tyrosine phosphorylated and regulated protein kinase-2	Human	GenBank NM_003583	○	○	○	
DYRK3	dual-specificity tyrosine phosphorylated and regulated protein kinase-3	Human	GenBank NM_003582.2	○	○	○	
eEF-2K	eukaryotic elongation factor-2 kinase	Human	GenBank NM_013302	○	○	○	○
EGFR	epidermal growth factor receptor	Human	GenBank X00588	○	○	○	○
EGFR(L858R)	epidermal growth factor receptor(L858R mutant)	Human	GenBank X00588	○	○		
EGFR(L861Q)	epidermal growth factor receptor(L861Q mutant)	Human	GenBank X00588	○	○		
EGFR(T790M)	epidermal growth factor receptor(T790M mutant)	Human	GenBank X00588	○	○		
EGFR(T790M, L858R)	epidermal growth factor receptor(T790M, L858R mutant)	Human	GenBank X00588	○	○		
EphA1	ephrin-A1 receptor kinase	Human	GenBank AH007960	○	○	○	
EphA2	ephrin-A2 receptor kinase	Human	GenBank NM_004431	○	○	○	
EphA3	ephrin-A3 receptor kinase	Human	GenBank NM_005233	○	○	○	
EphA4	ephrin-A4 receptor kinase	Human	GenBank NM_004438	○	○	○	
EphA5	ephrin-A5 receptor kinase	Human	GenBank NM_004439	○	○	○	○
EphA7	ephrin-A7 receptor kinase	Human	GenBank NM_004440	○	○	○	
EphA8	ephrin-A8 receptor kinase	Human	GenBank NM_020526	○	○	○	

EphB1	ephrin-B1 receptor kinase	Human	GenBank NM_004441	○	○	○	
EphB2	ephrin-B2 receptor kinase	Human	GenBank D31661	○	○	○	
EphB3	ephrin-B3 receptor kinase	Human	GenBank NM_004443	○	○	○	
EphB4	ephrin-B4 receptor kinase	Human	GenBank AY056047	○	○	○	○
ErbB2	product of ErbB2 proto-oncogene	Human	GenBank NM_004448	○	○	○	
ErbB4	product of ErbB4 proto-oncogene	Human	GenBank NM_005235	○	○	○	
FAK	focal adhesion kinase	Human	GenBank L13616	○	○	○	
Fer	Fps/Fes-related tyrosine kinase	Human	GenBank NM_005246	○	○	○	
Fes	product of fes proto-oncogene	Human	GenBank X06292	○	○	○	
FGFR1	fibroblast growth factor receptor-1	Human	GenBank NM_000604	○	○	○	
FGFR1(V561M)	fibroblast growth factor receptor-1(V561M mutant)	Human	GenBank NM_000604	○	○		
FGFR2	fibroblast growth factor receptor-2	Human	GenBank NM_000141	○	○	○	
FGFR2(N549H)	fibroblast growth factor receptor-2(N549H mutant)	Human	GenBank NM_000141	○	○		
FGFR3	fibroblast growth factor receptor-3	Human	GenBank M58051	○	○	○	
FGFR4	fibroblast growth factor receptor-4	Human	GenBank L03840	○	○	○	
Fgr	product of fgr proto-oncogene	Human	GenBank M19722	○	○	○	
Flt1	fms-like tyrosine kinase-1	Human	GenBank AF063657	○	○	○	
Flt3(D835Y)	fms-like tyrosine kinase-3(D835Y mutant)	Human	GenBank NM_004119	○	○		
Flt3	fms-like tyrosine kinase-3	Human	GenBank NM_004119	○	○	○	
Flt4	fms-like tyrosine kinase-4	Human	GenBank NM_182925	○	○	○	
Fms	product of fms proto-oncogene	Human	GenBank U63963	○	○	○	
Fms(Y969C)	product of fms proto-oncogene(Y969C mutant)	Human	GenBank U63963	○	○		
Fyn	product of fyn proto-oncogene	Human	SWISS-PROT P06241	○	○	○	○
GAK	cyclin G associated kinase	Human	GenBank NM_005255.4	○	○	○	
GCK	germinal centre kinase	Human	GenBank BC047865	○	○	○	
GCN2	general control nonderepressible-2	Human	GenPept NP_001013725(synthetic cds)	○	○	○	
GRK1	G protein-coupled receptor kinase-1	Human	GenPept NP_002920(synthetic cds)	○	○	○	
GRK2	G protein-coupled receptor kinase-2	Human	GenBank NM_001619.3	○	○	○	
GRK3	G protein-coupled receptor kinase-3	Human	GenBank NM_005160.3	○	○	○	
GRK4	G protein-coupled receptor kinase-4	Human	GenBank BC117320.1	○	○	○	
GRK5	G protein-coupled receptor kinase-5	Human	GenBank NM_005308	○	○	○	
GRK6	G protein-coupled receptor kinase-6	Human	GenBank NM_001004106	○	○	○	
GRK7	G protein-coupled receptor kinase-7	Human	GenBank NM_139209	○	○	○	
GSK3a	glycogen synthase kinase-3a	Human	GenBank NM_019884	○	○	○	
GSK3b	glycogen synthase kinase-3b	Human	SWISS-PROT P49841	○	○	○	○
haspin	haploid germ cell-specific nuclear protein kinase	Human	GenBank NM_031965	○	○	○	
Hck	haematopoietic cell kinase	Human	GenBank NM_002110	○	○	○	
Hck activated	haematopoietic cell kinase, activated	Human	GenBank NM_002110	○	○	○	
HIPK1	homeodomain-interacting protein kinase-1	Human	GenBank NM_152696	○	○	○	
HIPK2	homeodomain-interacting protein kinase-2	Human	GenBank AF326592	○	○	○	
HIPK3	homeodomain-interacting protein kinase-3	Human	GenBank NM_005734	○	○	○	
HIPK4	homeodomain-interacting protein kinase-4	Human	GenBank BC034501.2	○	○	○	
HPK1	hematopoietic progenitor kinase-1	Human	GenBank NM_007181.5	○	○	○	
HRI	heme-regulated inhibitor	Human	GenBank NM_014413.2	○	○	○	
ICK	intestinal cell kinase	Human	GenBank NM_014920.2	○	○	○	
IGF-1R	insulin-like growth factor-1 receptor	Human	GenBank X04434	○	○	○	○
IGF-1R activated	insulin-like growth factor-1 receptor, activated	Human	GenBank X04434	○	○	○	
IKKa	IκB kinase a	Human	GenBank AF012890	○	○	○	○
IKKb	IκB kinase b	Human	GenBank AF080158	○	○	○	
IKKε	IκB kinase e	Human	GenBank NM_014002	○	○	○	
IR	insulin receptor	Human	GenBank NM_000208	○	○	○	
IR activated	insulin receptor, activated	Human	GenBank NM_000208	○	○	○	
IRAK1	interleukin-1 receptor-associated kinase-1	Human	GenBank NM_001569	○	○	○	
IRAK4	interleukin-1 receptor-associated kinase-4	Human	GenBank AF445802	○	○	○	○
IRE1	Inositol-requiring enzyme-1	Human	GenBank NM_001433	○	○	○	
IRE2	6His-IRE2-(hu,505-end)	Human	GenBank NM_033266.2	○	○	○	
IRR	insulin receptor-related receptor	Human	GenBank NM_014215	○	○	○	
Itk	interleukin-2 tyrosine kinase	Human	GenBank NM_005546	○	○	○	
JAK1	Janus kinase-1	Human	GenBank NM_002227	○	○	○	
JAK2	Janus kinase-2	Human	GenBank NM_004972	○	○	○	○
JAK3	Janus kinase-3	Human	GenBank AF513860	○	○	○	
JNK1a1	cJun N-terminal kinase-1a1	Human	EMBL L26318	○	○	○	
JNK2a2	cJun N-terminal kinase-2a2	Human	SWISS-PROT P45984	○	○	○	
JNK3	cJun N-terminal kinase-3	Human	GenBank NM_138980	○	○	○	
KDR	kinase insert domain receptor	Human	GenBank NM_002253	○	○	○	○
LATS1	large tumor suppressor kinase-1	Human	GenBank NM_004690.2	○	○	○	
LATS2	large tumor suppressor kinase-2	Human	GenBank NM_014572.2	○	○	○	
Lck	lymphocyte kinase	Human	SWISS-PROT P06239	○	○	○	
Lck activated	lymphocyte kinase, activated	Human	SWISS-PROT P06239	○	○	○	
LIMK1	LIM motif-containing protein kinase-1	Human	GenBank NM_002314	○	○	○	
LIMK2	LIM motif-containing protein kinase-2	Human	GenBank NM_005569.2	○	○	○	
LKB1	LKB1	Human	GenBank NM_000455	○	○	○	
LOK	lymphocyte-oriented kinase	Human	GenBank NM_005990	○	○	○	○
LRRK2	Leucine-rich repeat kinase-2	Human	GenBank BC117180	○	○	○	
LTK	Leukocyte tyrosine kinase	Human	GenBank NM_002344.3	○	○	○	
Lyn	Lck/Yes-related tyrosine kinase	Human	EMBL M16038	○	○	○	○
Lyn(m)	Lck/Yes-related tyrosine kinase	Mouse	EMBL M64608	○			
MAK	male germ cell-associated kinase	Human	GenBank BC039825.1	○	○	○	
MAP4K3	mitogen-activated protein kinase kinase kinase kinase-3	Human	GenBank NM_003618.2	○	○	○	
MAP4K4	mitogen-activated protein kinase kinase kinase kinase-4	Human	GenBank NM_004834.4	○	○	○	
MAP4K5	mitogen-activated protein kinase kinase kinase kinase-5	Human	GenBank NM_198794.1	○	○	○	
MAPK3	mitogen-activated protein kinase-3	Human	SWISS-PROT P27361	○	○	○	
MAPK1	mitogen-activated protein kinase-1	Human	GenBank NM_002745	○	○	○	

MAPK1(m)	mitogen-activated protein kinase-1	Mouse	SWISS-PROT P27703	○			
MAPKAP-K2	MAPK-activated protein kinase-2	Human	SWISS-PROT P49137	○	○	○	○
MAPKAP-K3	MAPK-activated protein kinase-3	Human	GenBank NM_004635	○	○	○	
MARK1	microtubule-affinity regulating kinase-1	Human	GenBank AF154845	○	○	○	
MARK3	microtubule-affinity regulating kinase-3	Human	GenBank NM_002376.6	○	○	○	
MARK4	microtubule-affinity regulating kinase-4	Human	GenBank NM_001199867.1	○	○	○	
MAST1	6His-MAST1-(hu,319-737)	Human	GenBank NM_014975.1	○	○	○	
MATK	megakaryocyte-associated tyrosine protein kinase	Human	GenBank NM_139354.3	○	○	○	
MEK1	MAPK/ERK kinase-1	Human	SWISS-PROT Q02750	○	○	○	○
MEK2	MAPK/ERK kinase-2	Human	GenBank NM_030662.2	○	○	○	
MEK5	dual specificity mitogen-activated protein kinase kinase 5	Human	GenBank NP_660143.1	○	○	○	
MEKK2	MAPK/ERK kinase kinase-2	Human	GenBank NM_006609.3	○	○	○	
MEKK3	MAPK/ERK kinase kinase-3	Human	GenBank NM_002401.3	○	○	○	
MEKK4	mitogen-activated protein kinase kinase kinase 4	Human	GenBank NP_005913.2	○	○	○	
MELK	maternal embryonic leucine zipper kinase	Human	GenBank NM_014791	○	○	○	
Mer	product of mer proto-oncogene	Human	GenBank NM_006343	○	○	○	
Met(D1246H)	product of met proto-oncogene(D1246H mutant)	Human	GenBank J02958	○	○		
Met(D1246N)	product of met proto-oncogene(D1246N mutant)	Human	GenBank J02958	○	○		
Met	product of met proto-oncogene	Human	GenBank J02958	○	○	○	
Met(M1268T)	product of met proto-oncogene(M1268T mutant)	Human	GenBank J02958	○	○		
Met(Y1248C)	product of met proto-oncogene(Y1248C mutant)	Human	GenBank J02958	○	○		
Met(Y1248D)	product of met proto-oncogene(Y1248D mutant)	Human	GenBank J02958	○	○		
Met(Y1248H)	product of met proto-oncogene(Y1248H mutant)	Human	GenBank J02958	○	○		
MINK	misshapen/NIK-related kinase	Human	GenBank NM_015716	○	○	○	
MKK3	MAPK kinase-3	Human	GenBank NM_002756.4	○	○	○	
MKK4(m)	MAPK kinase-4	Mouse	SWISS-PROT P47809	○			
MKK6	MAPK kinase-6	Human	SWISS-PROT P52564	○	○	○	
MLCK	myosin light chain kinase	Human	GenBank NM_053025	○	○	○	
MLK1	mixed lineage kinase-1	Human	GenBank NM_033141	○	○	○	○
MLK2	mixed lineage kinase-2	Human	GenBank NM_002446.2	○	○	○	
MLK3	mixed lineage kinase-3	Human	GenBank NM_002419.2	○	○	○	
MLK4	mixed lineage kinase-4	Human	GenBank BC136649.1	○	○	○	
MnK1	MAP kinase-interacting serine/threonine-protein kinase 1	Human	GenBank NM_001135553.2	○	○	○	
Mnk2	MAPK-interacting kinase-2	Human	GenBank NM_017572	○	○	○	○
MOK	MAPK/MAK/MRK overlapping kinase	Human	GenBank NM_014226.2	○	○	○	
MRCKa	myotonic dystrophy kinase-related Cdc42-binding kinasea	Human	GenBank NM_003607	○	○	○	
MRCKb	myotonic dystrophy kinase-related Cdc42-binding kinaseb	Human	GenBank NM_006035	○	○	○	
MRCKγ	myotonic dystrophy kinase-related Cdc42-binding kinaseg	Human	GenPept NP_059995.1(synthetic cds)	○	○	○	
MSK1	mitogen- and stress-activated protein kinase-1	Human	GenBank AF074393	○	○	○	
MSK2	mitogen- and stress-activated protein kinase-2	Human	GenBank AJ010119	○	○	○	○
MSSK1	muscle-specific serine kinase-1	Human	GenBank NM_014370	○	○	○	
MST1	mammalian STE20-like kinase-1	Human	GenBank NM_006282	○	○	○	○
MST2	mammalian STE20-like kinase-2	Human	GenBank U60206	○	○	○	
MST3	mammalian STE20-like kinase-3	Human	GenBank BC035578	○	○	○	
MST4	mammalian STE20-like kinase-4	Human	GenBank NM_016542	○	○	○	
mTOR	mammalian target of rapamycin	Human	GenBank NM_004958	○	○	○	○
mTOR/FKBP12	mammalian target of rapamycin/12kDa FK506-binding protein	Human	GenBank NM_004958(mTOR)/GenBank NM_054014(FKBP12)	○	○	○	
MuSK	muscle-specific receptor tyrosine kinase	Human	GenBank NM_005592	○	○	○	
MYLK2	myosin light chain kinase-2	Human	GenBank BC092413.1	○	○	○	
MYO3A	GST-MYO3A-(hu, 1-434)	Human	GenBank BC119811.1	○	○	○	
MYO3B	myosin-IIIB	Human	GenBank BC144307.1	○	○	○	
MYT1	mitogen-activated protein kinase kinase kinase 4	Human	GenBank NM_004203	○	○	○	
NDR1	nuclear Dbf2-related kinase-1	Human	GenBank NM_007271.2	○	○	○	
NDR2	nuclear Dbf2-related kinase-2	Human	GenBank NM_015000.1	○	○	○	
NEK1	NIMA-related kinase-1	Human	GenBank NM_012224.2	○	○	○	
NEK10	FLAG-NEK10-(hu, FL)-10His	Human	GenBank NM_152534.6	○	○	○	
NEK11	NIMA-related kinase-11	Human	GenBank BC028587	○	○	○	
NEK2	NIMA-related kinase-2	Human	GenBank NM_002497	○	○	○	○
NEK3	NIMA-related kinase-3	Human	GenBank NM_002498	○	○	○	
NEK4	NIMA-related kinase-4	Human	GenBank NM_003157.4	○	○	○	
NEK5	NIMA-related kinase-5	Human	GenBank BC063885.1	○	○	○	
NEK6	NIMA-related kinase-6	Human	GenBank NM_014397	○	○	○	
NEK7	NIMA-related kinase-7	Human	GenBank AB062450	○	○	○	
NEK9	NIMA-related kinase-9	Human	GenBank NM_033116	○	○	○	
NIM1	NIM1 serine/threonine-protein kinase	Human	GenBank NM_153361.3	○	○	○	
NLK	nemo-like kinase	Human	GenBank NM_016231	○	○	○	
NUAK2	NUAK family SNF1-like kinase-2	Human	GenBank BC017306.2	○	○	○	
OSR1	oxidative stress-response-1	Human	GenBank BC008726.2	○	○	○	
p70S6K	p70 ribosomal protein S6 kinase	Human	GenBank M60724	○	○	○	○
p70S6Kβ	Ribosomal protein S6 kinase beta-2	Human	GenBank NM_003952.2	○	○	○	
PAK1	p21-activated protein kinase-1	Human	GenBank NM_002576	○	○	○	
PAK2	p21-activated protein kinase-2	Human	GenBank U24153	○	○	○	○
PAK3	p21-activated protein kinase-3	Human	GenBank AB102659.1	○	○	○	
PAK4	p21-activated protein kinase-4	Human	GenBank NM_005884	○	○	○	
PAK5	p21-activated protein kinase-5	Human	GenBank NM_020341	○	○	○	
PAK6	p21-activated protein kinase-6	Human	GenBank NM_020168	○	○	○	

PAR-1Ba	PAR-1Ba	Human	GenBank AF387638	○	○	○	
PASK	PAS domain-containing kinase	Human	GenBank NM_015148	○	○	○	
PDGFRa(D842V)	platelet-derived growth factor receptora(D842V mutant)	Human	GenBank M21574	○	○		
PDGFRa	platelet-derived growth factor receptora	Human	GenBank M21574	○	○	○	
PDGFRa(V561D)	platelet-derived growth factor receptora(V561D mutant)	Human	GenBank M21574	○	○		
PDGFRb	platelet-derived growth factor receptorb	Human	GenBank J03278	○	○	○	○
PDHK2	pyruvate dehydrogenase kinase-2	Human	GenBank NM_002611.3	○	○	○	
PDHK4	pyruvate dehydrogenase kinase-4	Human	GenBank NM_002612.2	○	○	○	
PDK1	3-phosphoinositide-dependent protein kinase-1	Human	EMBL O15530	○	○	○	
PEK	pancreatic eIF-2a kinase	Human	GenBank NM_004836	○	○	○	
PhKg1	phosphorylase kinase-g1	Human	GenBank NM_006213.2	○	○	○	
PhKg2	phosphorylase kinase-g2	Human	GenBank NM_000294	○	○	○	
PI3 Kinase(p110a(E542K)/p 85a)	phosphatidylinositol 3-kinasea(E542K mutant)/p85a	Human	GenBank U79143(PI3Ka)/GenBank XM_043865(p85a)	○	○		
PI3 Kinase(p110a(E542K)/p 85a)(m)	phosphatidylinositol 3-kinasea(E542K mutant)/p85a	Mouse	GenBank BC089038(PI3Ka)/GenBank NM_001077495(p85a)	○			
PI3 Kinase(p110a(E545K)/p 85a)	phosphatidylinositol 3-kinasea(E545K mutant)/p85a	Human	GenBank U79143(PI3Ka)/GenBank XM_043865(p85a)	○	○		
PI3 Kinase(p110a(E545K)/p 85a)(m)	phosphatidylinositol 3-kinasea(E545K mutant)/p85a	Mouse	GenBank BC089038(PI3Ka)/GenBank NM_001077495(p85a)	○			
PI3 Kinase(p110α (H1047R)/p85α)	phosphatidylinositol 3-kinasea(H1047R mutant)/p85a	Human	GenBank U79143(PI3Ka)/GenBank XM_043865(p85a)	○	○		
PI3 Kinase(p110a(H1047R)/ p85a)(m)	phosphatidylinositol 3-kinasea(H1047R mutant)/p85a	Mouse	GenBank BC089038(PI3Ka)/GenBank NM_001077495(p85a)	○			
PI3 Kinase(p110a/p65a)	phosphatidylinositol 3-kinasea/p65a	Human	GenBank U79143(PI3Ka)/GenBank XM_043865(p85a)	○	○		
PI3 Kinase(p110a/p65a)(m)	phosphatidylinositol 3-kinasea/p65a	Mouse	GenBank BC089038(PI3Ka)/GenBank NM_001077495(p85a)	○			
PI3 Kinase(p110a/p85a)	phosphatidylinositol 3-kinasea/p85a	Human	GenBank U79143(PI3Ka)/GenBank XM_043865(p85a)	○	○	○	○
PI3 Kinase(p110a/p85a)(m)	phosphatidylinositol 3-kinasea/p85a	Mouse	GenBank BC089038(PI3Ka)/GenBank NM_001077495(p85a)	○			
PI3 Kinase(p110b/p85a)	phosphatidylinositol 3-kinaseb/p85a	Human	GenBank NM_006219(PI3Kb)/GenBank XM_043865(p85a)	○	○	○	○
PI3 Kinase(p110b/p85a)(m)	phosphatidylinositol 3-kinaseb/p85a	Mouse	GenBank NM_029094(PI3Kb)/GenBank NM_001077495(p85a)	○			
PI3 Kinase(p110b/p85b)(m)	phosphatidylinositol 3-kinaseb/p85b	Mouse	GenBank NM_029094(PI3Kb)/GenBank BC006796(p85b)	○			
PI3 Kinase(p110d/p85a)	phosphatidylinositol 3-kinased/p85a	Human	GenBank NM_005026(PI3Kd)/GenBank XM_043865(p85a)	○	○	○	○
PI3 Kinase(p110d/p85a)(m)	phosphatidylinositol 3-kinased/p85a	Mouse	Genbank NM_008840(PI3Kd)/GenBank NM_001077495(p85a)	○			
PI3 Kinase(p120g)	phosphatidylinositol 3-kinaseg	Human	GenBank AF327656	○	○	○	○
PI3KC2a	phosphoinositide 3-kinase C2a	Human	GenBank BC113658	○	○	○	
PI3KC2g	phosphoinositide 3-kinase C2g	Human	GenBank BC130277	○	○	○	
Pim-1	product of pim-1 proto-oncogene	Human	GenBank M27903	○	○	○	○
Pim-2	product of pim-2 proto-oncogene	Human	GenBank U77735	○	○	○	
Pim-3	product of pim-3 proto-oncogene	Human	GenBank AB114795	○	○	○	
PIP4K2a	phosphatidylinositol-5-phosphate 4-kinase- 2a	Human	GenBank NM_005028	○	○	○	
PIP5K1a	phosphatidylinositol-4-phosphate 5-kinase- 1a	Human	GenBank U78577	○	○	○	
PIP5K1g	phosphatidylinositol-4-phosphate 5-kinase- 1g	Human	GenBank NM_012398	○	○	○	
PKA	3':5'-AMP-dependent protein kinase	Human	GenBank X07767	○	○	○	○
PKAcb	cAMP-dependent protein kinase catalytic subunit beta	Human	GenBank NM_002731.3	○	○	○	
PKBa	protein kinase Ba	Human	SWISS-PROT P31749	○	○	○	○
PKBb	protein kinase Bb	Human	EMBL M95936	○	○	○	
PKBg	protein kinase Bg	Human	EMBL AF124141	○	○	○	
PKCa	protein kinase Ca	Human	GenBank X52479	○	○	○	○
PKCbI	protein kinase CbI	Human	GenBank X06318	○	○	○	
PKCbII	protein kinase CbII	Human	GenBank X07109	○	○	○	
PKCd	protein kinase Cd	Human	GenBank L07861	○	○	○	
PKCe	protein kinase Ce	Human	GenBank X65293	○	○	○	
PKCg	protein kinase Cg	Human	GenBank XM_017991	○	○	○	
PKCh	protein kinase Ch	Human	GenBank NM_006255	○	○	○	
PKCi	protein kinase Ci	Human	GenBank NM_002740	○	○	○	
PKCm	protein kinase Cm	Human	GenBank NM_002742	○	○	○	
PKCq	protein kinase Cq	Human	GenBank L07032	○	○	○	○
PKCz	protein kinase Cz	Human	GenBank BC014270	○	○	○	
PKD2	protein kinase D2	Human	GenBank NM_016457	○	○	○	
PKD3	protein kinase D3	Human	GenBank NM_005813.3	○	○	○	
PKG1a	cGMP-dependent protein kinase-1a	Human	GenBank D45864	○	○	○	○
PKG1b	cGMP-dependent protein kinase-1b	Human	GenBank NM_006258	○	○	○	
PKR	double-stranded RNA-dependent protein kinase	Human	GenBank NM_002759.1	○	○	○	
Plk1	polo-like kinase-1	Human	GenBank NM_005030	○	○	○	
Plk3	polo-like kinase-3	Human	GenBank NM_004073	○	○	○	○
Plk4	polo-like kinase-4	Human	GenBank NM_014264.2	○	○	○	
PRAK	p38-regulated/activated kinase	Human	TrEMBL O60491	○	○	○	○
PRK1	protein kinase C-related protein kinase-1	Human	GenBank NM_002741.3	○	○	○	
PRK2	protein kinase C-related protein kinase-2	Human	GenBank NM_006256	○	○	○	
PRKG2	cGMP-dependent protein kinase-2	Human	GenBank BC111597.2	○	○	○	
PrKX	protein kinase X	Human	GenBank NM_005044	○	○	○	
PRP4	pre-mRNA processing factor-4 homolog	Human	GenBank NM_176800.1	○	○	○	
PTK5	protein tyrosine kinase-5	Human	GenBank NM_002031	○	○	○	
PYK2	proline-rich tyrosine kinase-2	Human	GenBank S80542	○	○	○	

Ret	product of ret proto-oncogene	Human	GenBank NM_000323	○	○	○	
Ret(V804L)	product of ret proto-oncogene(V804L mutant)	Human	GenBank NM_000323	○	○		
Ret(V804M)	product of ret proto-oncogene(V804M mutant)	Human	GenBank NM_000323	○	○		
RIPK1	receptor-interacting serine-threonine protein kinase-1	Human	GenBank NM_003804.3	○	○	○	
RIPK2	receptor-interacting serine-threonine protein kinase-2	Human	GenBank NM_003821	○	○	○	
ROCK-I	Rho-dependent protein kinase-I	Human	GenBank NM_005406	○	○	○	○
ROCK-II	Rho-dependent protein kinase-II	Human	GenBank 3327051	○	○	○	
ROCK-II(r)	Rho-dependent protein kinase-II	Rat	GenBank NM_013022	○			
Ron	recepteur d'origine nantais	Human	GenBank NM_002447	○	○	○	
Ros	product of ros proto-oncogene	Human	GenBank M34353	○	○	○	
Rse	receptor sectatoris tyrosine kinase	Human	GenBank D17517	○	○	○	○
Rsk1	ribosomal protein S6 kinase-1	Human	GenBank NM_002953	○	○	○	○
Rsk1(r)	ribosomal protein S6 kinase-1	Rat	GenBank M99169	○			
Rsk2	ribosomal protein S6 kinase-2	Human	GenBank NM_004586	○	○	○	
Rsk3	ribosomal protein S6 kinase-3	Human	GenBank XM_004469	○	○	○	
Rsk4	ribosomal protein S6 kinase-4	Human	GenBank NM_014496	○	○	○	
SAPK2a	stress-activated protein kinase-2a	Human	SWISS-PROT Q16539	○	○	○	○
SAPK2a(T106M)	stress-activated protein kinase-2a(T106M mutant)	Human	GenBank L35264	○	○		
SAPK2b	stress-activated protein kinase-2b	Human	EMBL Y14440	○	○	○	
SAPK3	stress-activated protein kinase-3	Human	SWISS-PROT P53778	○	○	○	
SAPK4	stress-activated protein kinase-4	Human	SWISS-PROT O15264	○	○	○	
SBK1	SH3-binding kinase-1	Human	GenPept NP_001019572.1(synthetic cds)	○	○	○	
SGK	serum- and glucocorticoid-induced protein kinase	Human	GenBank AF153609	○	○	○	
SGK2	serum- and glucocorticoid-induced protein kinase-2	Human	GenBank NM_016276	○	○	○	
SGK3	serum- and glucocorticoid-induced protein kinase-3	Human	GenBank NM_013257	○	○	○	
SIK	salt-inducible kinase	Human	GenBank NM_173354	○	○	○	
SIK2	salt-inducible kinase-2	Human	GenBank NM_015191.1	○	○	○	
SIK3	salt-inducible kinase-3	Human	GenBank BC128510.1	○	○	○	
SLK	ste20-like kinase	Human	GenBank BC111565.1	○	○	○	
SMG1	FLAG-SMG1-(hu,fl)	Human	Genbank NM_015092.4	○	○	○	
Snk	serum-inducible kinase	Human	GenBank NM_006622	○	○	○	
SNRK	sucrose non-fermenting-1-related protein kinase	Human	GenBank NM_017719	○	○	○	
Src(T341M)	cellular product of src oncogene(T341M mutant)	Human	EMBL K03218(SWISS-PROT P12931)	○	○		
Src(1-530)	cellular product of src oncogene(1-530 mutant)	Human	EMBL K03218(SWISS-PROT P12931)	○	○		
SRMS	src-related tyrosine kinase lacking C-terminal regulatory tyrosine and N-terminal myristoylation sites	Human	GenPept NP_543013.1(synthetic cds)	○	○	○	
SRPK1	serine/arginine-rich protein-specific kinase-1	Human	GenBank NM_003137	○	○	○	○
SRPK2	serine/arginine-rich protein-specific kinase-2	Human	GenBank NM_182691	○	○	○	
STK16	serine/threonine kinase-16	Human	GenBank NM_001008910.3	○	○	○	
STK25	serine/threonine kinase-25	Human	GenBank NM_006374	○	○	○	
STK32A	serine/threonine kinase-32A	Human	GenBank NM_001112724.1	○	○	○	
STK32B	serine/threonine kinase-32B	Human	GenBank NM_018401.1	○	○	○	
STK32C	serine/threonine kinase-32C	Human	GenPept NP_775846.2	○	○	○	
STK33	serine/threonine kinase-33	Human	GenBank NM_030906	○	○	○	
STK39	serine/threonine kinase-39	Human	GenBank NM_013233.1	○	○	○	
Syk	splenic tyrosine kinase	Human	GenBank L28824	○	○	○	
TAF1L	TATA box binding protein-associated factor 1-like	Human	GenBank NM_153809.1	○	○	○	
TAK1	TGFb-activated kinase-1	Human	GenBank NM_003188	○	○	○	○
TAO1	thousand and one amino acid protein kinase-1	Human	GenBank NM_020791	○	○	○	
TAO2	thousand and one amino acid protein kinase-2	Human	GenBank NM_016151	○	○	○	
TAO3	thousand and one amino acid protein kinase-3	Human	GenBank NM_016281	○	○	○	
TBK1	TANK-binding kinase-1	Human	GenBank NM_013254	○	○	○	
Tec activated	tyrosine kinase expressed in hepatocellular carcinoma, activated	Human	GenBank NM_003215	○	○	○	
TGFBR1	TGFb receptor-1	Human	GenBank NM_004612	○	○	○	
TGFBR2	TGFb receptor-2	Human	GenBank NM_003242.5	○	○	○	
Tie2	tyrosine kinase with Ig- and EGF-homology domains-2	Human	GenBank NM_000459	○	○	○	
Tie2(R849W)	tyrosine kinase with Ig- and EGF-homology domains-2(R849W mutant)	Human	GenBank NM_000459	○	○		
Tie2(Y897S)	tyrosine kinase with Ig- and EGF-homology domains-2(Y897S mutant)	Human	GenBank NM_000459	○	○		
TLK1	tousled-like kinase-1	Human	GenBank NM_012290	○	○	○	
TLK2	tousled-like kinase-2	Human	GenBank BC044925	○	○	○	
TNIK	TRAF2 and NCK interacting kinase	Human	GenBank NM_015028.1	○	○	○	
TRB2	Tribbles homolog-2	Human	GenBank NM_021643.1	○	○	○	
TrkA	product of TrkA gene(tropomyosin receptor kinase A)	Human	GenBank NM_002529	○	○	○	
TrkB	product of TrkB gene(tropomyosin receptor kinase B)	Human	GenBank U12140	○	○	○	
TrkC	product of TrkC gene (tropomyosin receptor kinase C)	Human	GenBank NM_002530	○	○	○	
TSSK1	testis-specific serine kinase-1	Human	GenBank NM_032028	○	○	○	
TSSK2	testis-specific serine kinase-2	Human	GenBank NM_053006	○	○	○	
TSSK3	testis-specific serine kinase-3	Human	GenBank NM_052841.2	○	○	○	
TSSK4	testis-specific serine kinase-4	Human	GenBank AY461663.1	○	○	○	
TTBK1	tau-tubulin kinase-1	Human	GenBank NM_032538.1	○	○	○	
TTBK2	tau-tubulin kinase-2	Human	GenBank BC071556.1	○	○	○	

TTK	dual specificity protein kinase TTK	Human	GenBank NM_003318.3	○	○	○	
Txk	Txk	Human	GenBank NM_003328	○	○	○	
TYK2	tyrosine kinase-2	Human	GenBank NM_003331	○	○	○	
ULK1	Unc-51-like kinase-1	Human	GenBank NM_003565.1	○	○	○	
ULK2	Unc-51-like kinase-2	Human	GenBank NM_014683	○	○	○	
ULK3	Unc-51-like kinase-3	Human	GenBank XM_044630	○	○	○	
VRK1	vaccinia-related kinase-1	Human	GenBank NM_003384.1	○	○	○	
VRK2	vaccinia-related kinase-2	Human	GenBank NM_006296	○	○	○	
Wee1	Wee1-like protein kinase	Human	GenBank NM_003390	○	○	○	
Wee1B	Wee1-like protein kinase-1B	Human	GenBank NM_001105558.1	○	○	○	
WNK1	with no lysine-1 protein kinase	Human	GenPept NP_061852.1(synthetic cds)	○	○	○	
WNK2	with no lysine-2 protein kinase	Human	GenBank NM_006648	○	○	○	
WNK3	with no lysine-3 protein kinase	Human	GenBank NM_020922	○	○	○	
WNK4	with no lysine-4 protein kinase	Human	GenPept AAI36665.1(synthetic cds)	○	○	○	
Yes	product of yes proto-oncogene	Human	GenBank M15990	○	○	○	
ZAK	sterile alpha motif and leucine zipper containing kinase AZK	Human	GenBank NM_016653.2	○	○	○	
ZAP-70	70kDa TCR z-chain-associated protein	Human	SWISS-PROT P43403	○	○	○	
ZIPK	zipper-interacting protein kinase	Human	GenBank AB007144	○	○	○	
				447	430	390	58