Available Kinase Assays

Nanosyn Name	Symbol	Approved Name
ABL1	ABL1	c-abl oncogene 1, non-receptor tyrosine kinase
AKT1	AKT1	v-akt murine thymoma viral oncogene homolog 1
AKT2	AKT2	v-akt murine thymoma viral oncogene homolog 2
AKT3	AKT3	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
ALK	ALK	anaplastic lymphoma receptor tyrosine kinase
AMP-A1B1G1	PRKAA1	protein kinase, AMP-activated, alpha 1 catalytic subunit
AMP-A2B1G1	PRKAA2	protein kinase, AMP-activated, alpha 2 catalytic subunit
ARG	ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2
ARK5	NUAK1	NUAK family, SNF1-like kinase, 1
AURORA-A	AURKA	aurora kinase A
AURORA-B	AURKB	aurora kinase B
AURORA-C	AURKC	aurora kinase C
AXL	AXL	AXL receptor tyrosine kinase
BLK	BLK	B lymphoid tyrosine kinase
BMX	BMX	BMX non-receptor tyrosine kinase
BRAF	BRAF	v-raf murine sarcoma viral oncogene homolog B1
BRK	PTK6	PTK6 protein tyrosine kinase 6
BRSK1	BRSK1	BR serine/threonine kinase 1
BRSK2	BRSK2	BR serine/threonine kinase 2
BTK	BTK	Bruton agammaglobulinemia tyrosine kinase
CAMK1A	CAMK1	calcium/calmodulin-dependent protein kinase I
CAMK1D	CAMK1D	calcium/calmodulin-dependent protein kinase ID
CAMK2A	CAMK2A	calcium/calmodulin-dependent protein kinase II alpha
CAMK2B	CAMK2B	calcium/calmodulin-dependent protein kinase II beta
CAMK2G	CAMK2G	calcium/calmodulin-dependent protein kinase II gamma
CAMK2D	CAMK2D	calcium/calmodulin-dependent protein kinase II delta
CAMK4	CAMK4	calcium/calmodulin-dependent protein kinase IV
CDK1-CYCLINB	CDK1	cyclin-dependent kinase 1 / cyclinB
CDK2-CYCLINA	CDK2	cyclin-dependent kinase 2 / cyclinA
CDK2-CYCLINE	CDK2	cyclin-dependent kinase 2 / cyclinE
CDK3-CYCLINE1	CDK3	cyclin-dependent kinase 3 / cyclinE1
CDK4-CYCLIND1	CDK4	cyclin-dependent kinase 4 / cyclinD1
CDK5-p35	CDK5	cyclin-dependent kinase 5 / p35
CDK5-p25	CDK5	cyclin-dependent kinase 5 / p25
CDK6-CYCLIND3	CDK6	cyclin-dependent kinase 6 / cyclinD3
CDK7/CICLINE H	CDK7	cyclin-dependent kinase 7/cyclin H
CDK9/CYCLINE T1	CDK9	cyclin-dependent kinase 9 / cyclin T1
CHEK1	CHEK1	CHK1 checkpoint human homolog (S. pombe)
CHEK2	CHEK2	CHK2 checkpoint human homolog (S. pombe)
CK1-ALPHA1	CSNK1A1	casein kinase 1, alpha 1
CK1-EPSILON	CSNK1E	casein kinase 1, epsilon
CK1-GAMMA1	CSNK1G1	casein kinase 1, gamma 1
CK1-GAMMA2	CSNK1G2	casein kinase 1, gamma 2
CK1-GAMMA3	CSNK1G3	casein kinase 1, gamma 3
CK2	CSNK2A1	casein kinase 2, alpha 1 polypeptide
CLK1	CLK1	CDC-like kinase 1
CLK2	CLK2	CDC-like kinase 2
CLK3	CLK3	CDC-like kinase 3

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Nanosyn Name	Symbol	Approved Name
CLK4	CLK4	CDC-like kinase 4
CRAF	RAF1	v-raf-1 murine leukemia viral oncogene homolog 1
CSK	CSK	c-src tyrosine kinase
DAPK1	DAPK1	death-associated protein kinase 1
DAPK3	DAPK3	death-associated protein kinase 3
DCAMKL2	DCLK2	doublecortin-like kinase 2
DDR1	DDR1	discoidin domain receptor tyrosine kinase 1
DDR2	DDR2	discoidin domain receptor tyrosine kinase 2
DYRK1A	DYRK1A	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A
DYRK1B	DYRK1B	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B
DYRK2	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2
DYRK3	DYRK3	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3
DYRK4	DYRK4	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4
EGFR	EGFR	epidermal growth factor receptor
EPH-A1	EPHA1	EPH receptor A1
EPH-A2	EPHA2	EPH receptor A2
EPH-A3	EPHA3	EPH receptor A3
EPH-A4	EPHA4	EPH receptor A4
EPH-A5	EPHA5	EPH receptor A5
EPH-A8	EPHA8	EPH receptor A8
EPH-B1	EPHB1	EPH receptor B1
EPH-B2	EPHB2	EPH receptor B2
EPH-B3	EPHB3	EPH receptor B3
EPH-B4	EPHB4	EPH receptor B4
ERBB2/HER2	ERBB2	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog
ERBB4/HER4	ERBB4	v-erb-a erythroblastic leukemia viral oncogene homolog 4
FAK	PTK2	PTK2 protein tyrosine kinase 2
FER	FER	fer (fps/fes related) tyrosine kinase
FES	FES	feline sarcoma oncogene
FGFR1	FGFR1	fibroblast growth factor receptor 1
FGFR2	FGFR2	fibroblast growth factor receptor 2
FGFR3	FGFR3	fibroblast growth factor receptor 3
FGFR4	FGFR4	fibroblast growth factor receptor 4
FGR	FGR	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog
FLT1	FLT1	fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)
FLT3	FLT3	fms-related tyrosine kinase 3
FLT4	FLT4	fms-related tyrosine kinase 4
FMS	CSF1R	colony stimulating factor 1 receptor
FRAP1	MTOR	mechanistic target of rapamycin (serine/threonine kinase)
FYN	FYN	FYN oncogene related to SRC, FGR, YES
GRK6	GRK6	G protein-coupled receptor kinase 6
GRK7	GRK7	G protein-coupled receptor kinase 7
GSK3-ALPHA	GSK3A	glycogen synthase kinase 3 alpha
GSK3-BETA	GSK3B	glycogen synthase kinase 3 beta
HASPIN	GSG2	germ cell associated 2 (haspin)
HCK	HCK	hemopoietic cell kinase
HIPK1	HIPK1	homeodomain interacting protein kinase 1
HIPK2	HIPK2	homeodomain interacting protein kinase 2
HIPK3	HIPK3	homeodomain interacting protein kinase 3

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Nanosyn Name	Symbol	Approved Name
HIPK4	HIPK4	homeodomain interacting protein kinase 4
IGF1R	IGF1R	insulin-like growth factor 1 receptor
IKK-ALPHA	CHUK	conserved helix-loop-helix ubiquitous kinase
IKK-BETA	IKBKB	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
IKK-EPSILON	IKBKE	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon
INSR	INSR	insulin receptor
IRAK1	IRAK1	interleukin-1 receptor-associated kinase 1
IRAK4	IRAK4	interleukin-1 receptor-associated kinase 4
IRR	INSRR	insulin receptor-related receptor
ITK	ITK	IL2-inducible T-cell kinase
JAK1	JAK1	Janus kinase 1
JAK2	JAK2	Janus kinase 2
JAK3	JAK3	Janus kinase 3
JNK1	MAPK8	mitogen-activated protein kinase 8
JNK2	MAPK9	mitogen-activated protein kinase 9
JNK3	MAPK10	mitogen-activated protein kinase 10
KDR	KDR	kinase insert domain receptor (a type III receptor tyrosine kinase)
KIT	KIT	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
LATS1	LATS1	large tumor suppressor kinase 1
LATS2	LATS2	LATS, large tumor suppressor, homolog 2 (Drosophila)
LCK	LCK	lymphocyte-specific protein tyrosine kinase
LOK	STK10	serine/threonine kinase 10
LRRK2	LRRK2	leucine-rich repeat kinase 2
LTK	LTK	leukocyte receptor tyrosine kinase
LYNA	LYN	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog, isoform A
LYNB	LYN	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog, isoform B
MAP4K2	MAP4K2	mitogen-activated protein kinase kinase kinase kinase 2
MAP4K4	MAP4K4	mitogen-activated protein kinase kinase kinase kinase 4
MAP4K5	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5
MAPK1	MAPK1	mitogen-activated protein kinase 1
MAPK3	MAPK3	mitogen-activated protein kinase 3
MAPKAPK2	MAPKAPK2	mitogen-activated protein kinase-activated protein kinase 2
MAPKAPK3	MAPKAPK3	mitogen-activated protein kinase-activated protein kinase 3
MARK1	MARK1	MAP/microtubule affinity-regulating kinase 1
MARK3	MARK3	MAP/microtubule affinity-regulating kinase 3
MARK4	MARK4	MAP/microtubule affinity-regulating kinase 4
MEK1	MAP2K1	mitogen-activated protein kinase kinase 1
MEK2	MAP2K2	mitogen-activated protein kinase kinase 2
MELK	MELK	maternal embryonic leucine zipper kinase
MER	MERTK	c-mer proto-oncogene tyrosine kinase
MET	MET	met proto-oncogene (hepatocyte growth factor receptor)
MINK	MINK1	misshapen-like kinase 1
MKNK1	MKNK1	MAP kinase interacting serine/threonine kinase 1
MRCK-ALPHA	CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like)
MRCK-BETA	CDC42BPB	CDC42 binding protein kinase beta (DMPK-like)
MSK1	RPS6KA5	ribosomal protein S6 kinase, 90kDa, polypeptide 5
MSK2	RPS6KA4	ribosomal protein S6 kinase, 90kDa, polypeptide 4
MSSK1	SRPK3	SRSF protein kinase 3
MST1	STK4	serine/threonine kinase 4
MST2	STK3	serine/threonine kinase 3
MST3	STK24	serine/threonine kinase 24

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Nanosyn Name	Symbol	Approved Name
MUSK	MUSK	muscle, skeletal, receptor tyrosine kinase
NDR2	STK38L	serine/threonine kinase 38 like
NDRG1	NDRG1	N-myc downstream regulated 1
NEK1	NEK1	NIMA (never in mitosis gene a)-related kinase 1
NEK2	NEK2	NIMA (never in mitosis gene a)-related kinase 2
NEK6	NEK6	NIMA (never in mitosis gene a)-related kinase 6
NEK7	NEK7	NIMA (never in mitosis gene a)-related kinase 7
NEK9	NEK9	NIMA (never in mitosis gene a)- related kinase 9
P38-ALPHA	MAPK14	mitogen-activated protein kinase 14
P38-BETA	MAPK11	mitogen-activated protein kinase 11
P38-DELTA	MAPK13	mitogen-activated protein kinase 13
P38-GAMMA	MAPK12	mitogen-activated protein kinase 12
P70S6K1	RPS6KB1	ribosomal protein S6 kinase, 70kDa, polypeptide 1
P70S6K2	RPS6KB2	ribosomal protein S6 kinase, 70kDa, polypeptide 2
PAK1	PAK1	p21 protein (Cdc42/Rac)-activated kinase 1
PAK2	PAK2	p21 protein (Cdc42/Rac)-activated kinase 2
PAK3	PAK3	p21 protein (Cdc42/Rac)-activated kinase 3
PAK4	PAK4	p21 protein (Cdc42/Rac)-activated kinase 4
PAK5	PAK7	p21 protein (Cdc42/Rac)-activated kinase 7
PAK6	PAK6	p21 protein (Cdc42/Rac)-activated kinase 6
PAR-1B-ALPHA	MARK2	MAP/microtubule affinity-regulating kinase 2
PASK	PASK	PAS domain containing serine/threonine kinase
PDGFR-ALPHA	PDGFRA	platelet-derived growth factor receptor, alpha polypeptide
PDGFR-BETA	PDGFRB	platelet-derived growth factor receptor, beta polypeptide
PDK1	PDK1	pyruvate dehydrogenase kinase, isozyme 1
PERK	EIF2AK3	eukaryotic translation initiation factor 2-alpha kinase 3
PHK-GAMMA1	PHKG1	phosphorylase kinase, gamma 1 (muscle)
PHK-GAMMA2	PHKG2	phosphorylase kinase, gamma 2 (testis)
PI3K-ALPHA	PIK3CA	phosphoinositide-3-kinase, catalytic, alpha polypeptide
PI4K-BETA	PI4KB	phosphatidylinositol 4-kinase, catalytic, beta
PIM1	PIM1	pim-1 oncogene
PIM2	PIM2	pim-2 oncogene
PIM3	PIM3	pim-3 oncogene
PKA	PRKACA	protein kinase, cAMP-dependent, catalytic, alpha
PKACB	PRKACB	protein kinase, cAMP-dependent, catalytic, beta
PKC-ALPHA	PRKCA	protein kinase C, alpha
PKC-BETA1	PRKCB	protein kinase C, beta
PKC-BETA2	PRKCB2	protein kinase C, beta
PKC-ETA	PRKCH	protein kinase C, eta
PKC-EPSILON	PRKCE	protein kinase C, epsilon
PKC-GAMMA	PRKCG	protein kinase C, gamma
PKC-IOTA	PRKCI	protein kinase C, iota
PKC-THETA	PRKCQ	protein kinase C, theta
PKC-ZETA	PRKCZ	protein kinase C, zeta
PKN1	PKN1	protein kinase N1
PKN2	PKN2	protein kinase N2
PLK1	PLK1	polo-like kinase 1
PLK2	PLK2	polo-like kinase 2
PLK3	PLK3	polo-like kinase 3
PLK4	PLK4	polo-like kinase 4
PRAK	MAPKAPK5	mitogen-activated protein kinase-activated protein kinase 5

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Nanosyn Name	Symbol	Approved Name
PRKD1	PRKD1	protein kinase D1
PRKD2	PRKD2	protein kinase D2
PRKD3	PRKD3	protein kinase D3
PRKG1	PRKG1	protein kinase, cGMP-dependent, type I
PRKG2	PRKG2	protein kinase, cGMP-dependent, type II
PRKX	PRKX	protein kinase, X-linked
PTK5	FRK	fyn-related kinase
PYK2	PTK2B	PTK2B protein tyrosine kinase 2 beta
RET	RET	ret proto-oncogene
RIPK2	RIPK2	receptor-interacting serine-threonine kinase 2
ROCK1	ROCK1	Rho-associated, coiled-coil containing protein kinase 1
ROCK2	ROCK2	Rho-associated, coiled-coil containing protein kinase 2
RON	MST1R	macrophage stimulating 1 receptor (c-met-related tyrosine kinase)
ROS	ROS1	c-ros oncogene 1 , receptor tyrosine kinase
RSK1	RPS6KA1	ribosomal protein S6 kinase, 90kDa, polypeptide 1
RSK2	RPS6KA3	ribosomal protein S6 kinase, 90kDa, polypeptide 3
RSK3	RPS6KA2	ribosomal protein S6 kinase, 90kDa, polypeptide 2
RSK4	RPS6KA6	ribosomal protein S6 kinase, 90kDa, polypeptide 6
SGK1	SGK1	serum/glucocorticoid regulated kinase 1
SGK2	SGK2	serum/glucocorticoid regulated kinase 2
SGK3	SGK3	serum/glucocorticoid regulated kinase family, member 3
SIK	SIK1	salt-inducible kinase 1
SLK	SLK	STE20-like kinase
SNF1LK2	SIK2	salt-inducible kinase 2
SPHK1	SPHK1	sphingosine kinase 1
SPHK2	SPHK2	sphingosine kinase 2
SRC	SRC	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog
SRMS	SRMS	src-related kinase lacking C-terminal regulatory tyrosine and N-terminal myristylation sites
SRPK1	SRPK1	SRSF protein kinase 1
SRPK2	SRPK2	SRSF protein kinase 2
STK16	STK16	serine/threonine kinase 16
SYK	SYK	spleen tyrosine kinase
TAK1/TAB1	MAP3K7	mitogen-activated protein kinase kinase kinase 7 /TAB1
TAOK2	TAOK2	TAO kinase 2
TAOK3	TAOK3	TAO kinase 3
TBK1	TBK1	TANK-binding kinase 1
TEC	TEC	tec protein tyrosine kinase
TIE2	TEK	TEK tyrosine kinase, endothelial
TNIK	TNIK	TRAF2 and NCK interacting kinase
TNK2	TNK2	tyrosine kinase, non-receptor, 2
TRKA	NTRK1	neurotrophic tyrosine kinase, receptor, type 1
TRKB	NTRK2	neurotrophic tyrosine kinase, receptor, type 2
TRKC	NTRK3	neurotrophic tyrosine kinase, receptor, type 3
TSSK1	TSSK1B	testis-specific serine kinase 1B
TSSK2	TSSK2	testis-specific serine kinase 2
TTK	TTK	TTK protein kinase
TXK	TXK	TXK tyrosine kinase
TYK2	TYK2	tyrosine kinase 2
TYRO3	TYRO3	TYRO3 protein tyrosine kinase
YES	YES1	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1
ZAP70	ZAP70	zeta-chain (TCR) associated protein kinase 70kDa

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