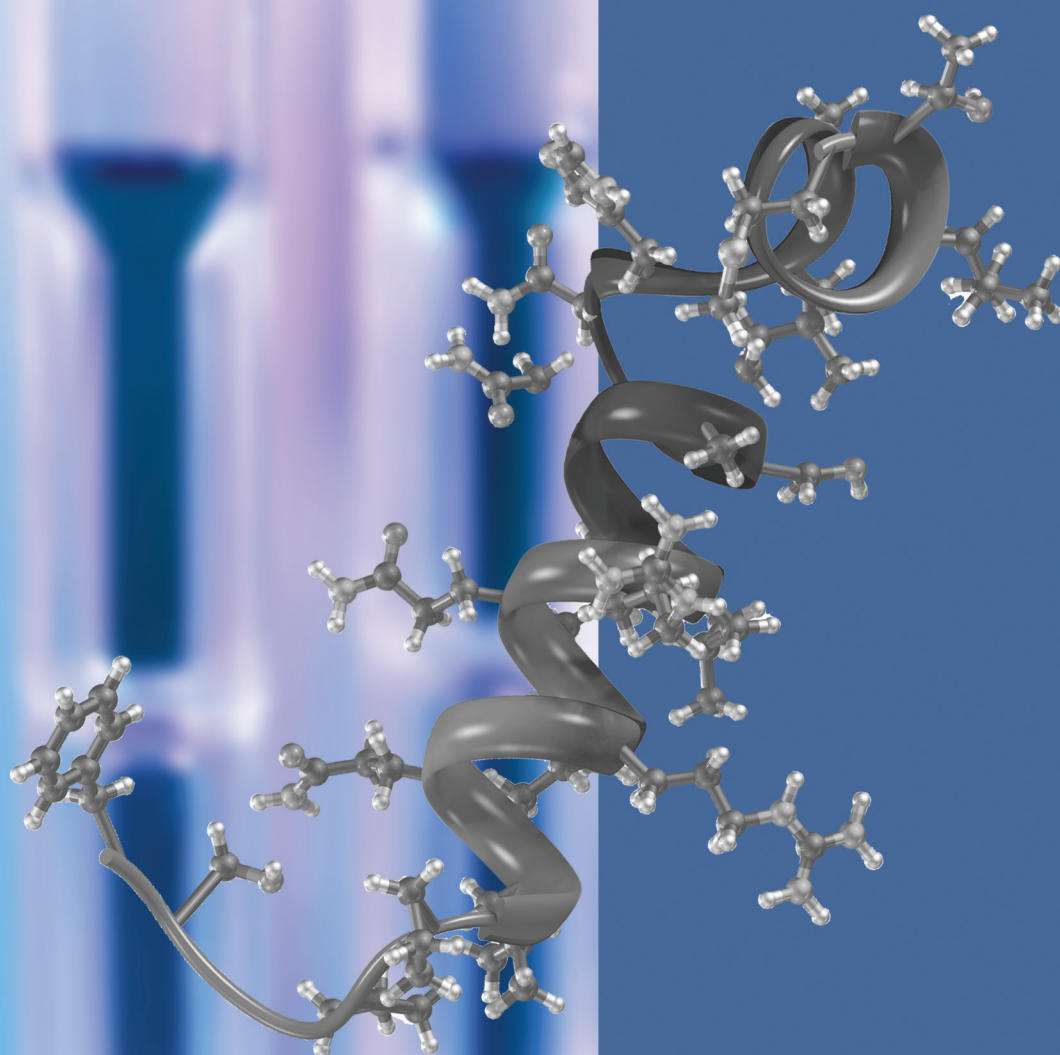




Active Kinase

Manual



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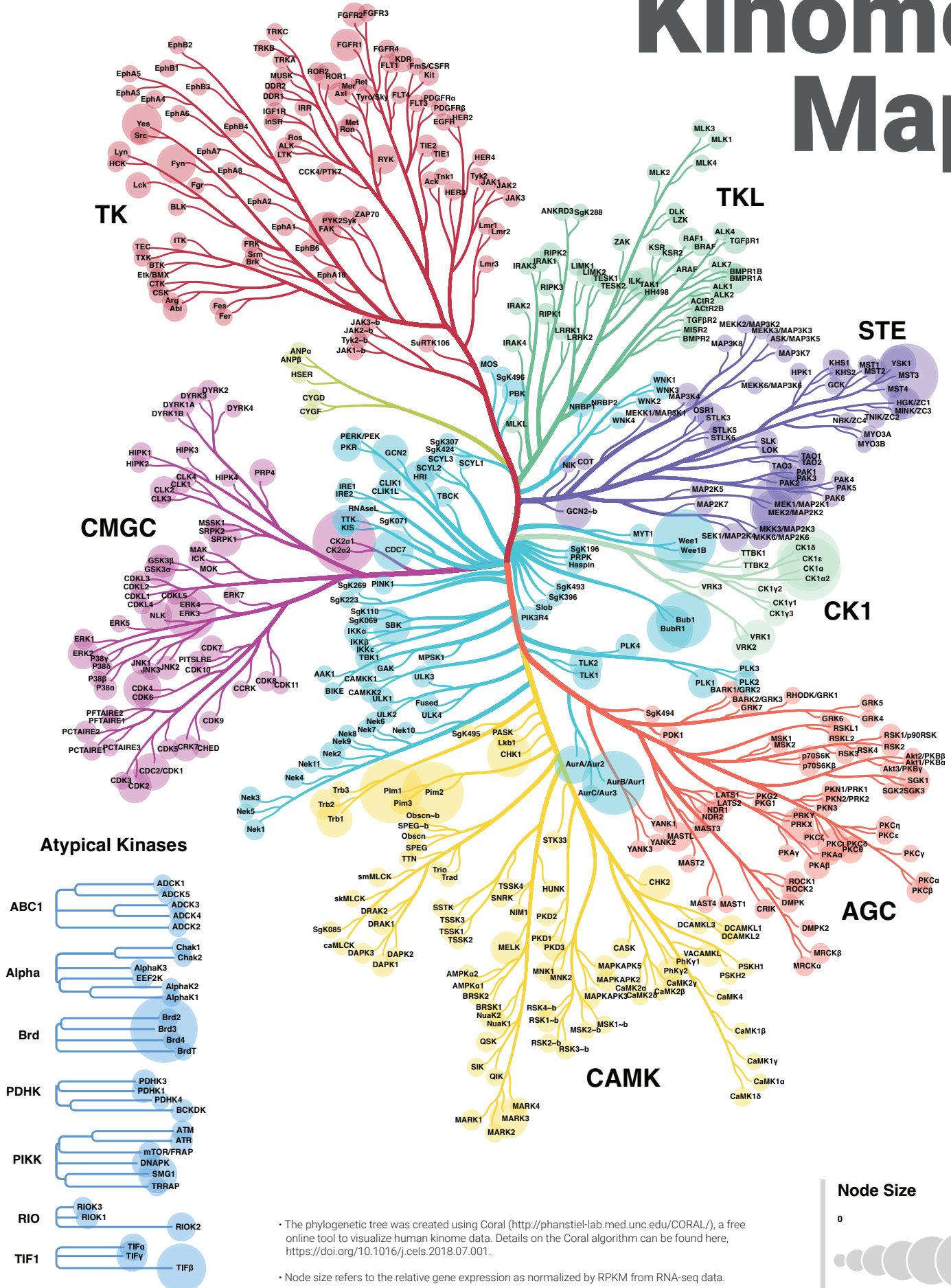
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Kinome Map



Sub-Category Glossary

Kinases

Kinases are one of the largest classes of enzymes, with over 500 family members, they constitute ~2% of all human genes. Kinases catalyze the transfer of the γ -phosphate from ATP to acceptor hydroxyl groups on amino acids (such as serine, threonine and tyrosine) in proteins or glycosyl moieties in lipids. This process, termed phosphorylation, is the most efficient way to regulate protein and lipid function in cells and is considered a key step in posttranslational modification of proteins and lipid kinases. Phosphorylation usually results in a functional change of the substrate or target protein such as a change in its enzyme activity, cellular localization, or association with other proteins. Protein and lipid kinases are not only present in humans, but also are readily found in bacteria and plants. Of the over 500 human kinases, majority of kinases belong to a single superfamily whose catalytic domains are related in sequence. These kinases can be clustered into groups, families and sub-families based on the increasing sequence similarity and biochemical function. 'Atypical' kinases have no sequence similarity to typical kinases, but are known or predicted to have enzyme activity. There are also many kinases that cannot be classified within the framework of conventional subfamilies, these kinases are grouped in 'other kinases'.

AGC Kinases

Members of the AGC kinases are categorized based upon the homology of their catalytic kinase domain. PDK1 is an AGC kinase, which is required for phosphorylating many of its fellow AGC members. One of its targets is AKT1/PKB α , another AGC family member which acts as a central node in cell signaling for growth factors, cytokines, and other stimuli, turning on programs for cell survival and proliferation. Hyperactive AKT1 signaling promotes tumor cell survival and resistance to apoptosis. Despite the relevance of AKT1 towards tumorigenesis, efforts to selectively target this kinase face the challenge of compensation by other AGC family members in the face of AKT inhibition

CAMK Kinases

Ca²⁺/Calmodulin-dependent kinases (CaMKs) are serine/threonine kinases that mediate many of the second messenger effects of Ca²⁺ via their conserved C-terminal Ca²⁺/Calmodulin-binding domains. CAMKs are indispensable metabolic sensors, which can respond to ion flux or concentration gradients to elicit programs that regulate cell migration, cell cycle and cell polarity. Well-known CAMKs include AMP-activated protein kinase (AMPK) and CAMK2 (CAMKII). AMPK is activated in response to low cellular ATP levels. As a metabolic regulator, AMPK is an important facet of how cancer cells use energy. CAMK2 is widely expressed and it is required for a wide range of processes, from learning to heart function. Due to its role in translating information from short-term to long-term memory, CAMK2 is often referred to as the "memory molecule". In the synapses of neurons, long-term potentiation (LTP) elicits Ca²⁺ influx, activating CAMK2. In turn, the kinase phosphorylates proteins to reinforce LTP and strengthen the synapse. In the heart, CAMK2 activity is promotes contractile strength of the cardiac muscle. Thus, hyperactivation of CAMK2 can lead to high blood pressure and cardiac hypertrophy. Due to their wide range physiological roles, members of the CAMK protein kinase family are excellent targets for pharmaceutical intervention. Currently, small molecule AMPK activators are under evaluation for cancer prevention and therapy and CAMK2 inhibitors are showing promise as agents for treating hypertension and other heart-related conditions.

CK1 Kinases

CK1 is a group of serine/threonine kinases that regulate cell differentiation, proliferation, cytoskeleton dynamics, chromosomal segregation, DNA repair and circadian rhythms. There are seven isoforms of CK1. CK1 α , δ , and ϵ activate the tumor suppressor p53 to ensure centrosome integrity and genomic stability. CK1 isoforms are localized to various regions within the cell, including the nucleus, where they directly interact with the mitotic spindle to regulate the cell cycle. Dysregulation or deletion of CK1 isoforms have been linked to neurodegenerative diseases and many types of cancers.

CMGC Kinases

CMGC kinases are a family of enzymes that preferentially phosphorylate proline-rich target sequences. CDKs are amongst the most studied members of the CMGC family because of their essential roles in regulating the cell cycle. CDK dysregulation is linked to many types of cancers through promoting abnormal cell growth. Efforts to selectively inhibit individual CDKs in cancer have revealed that these enzymes can compensate for one another, leading to little or no therapeutic effect in tumors. Current strategies involve designing inhibitors that are effective against more than one CDK to circumvent this problem.

STE Kinases

STE kinases are named after its founding member, the yeast sterile20 (Ste20) serine/threonine kinase. The STE subfamily includes many enzymes involved in MAP kinase signaling, including the mammalian Ste-20 like kinases (MSTs). There are five MSTs in humans: MST1 (STK4), MST2 (STK3), MST3 (STK24), MST4 (STK26), and YSK1 (STK25). MST1 and 2 are potent activators of cell proliferation and MST3/4 regulates cytoskeletal control and cell migration. Not surprisingly, mutations and fusions of MSTs have been found in cancers. Aberrant MST1/2 activity is connected to the rare cancer, mesothelioma and MST3/4 promotes metastasis in aggressive subtypes of breast cancer.

TK Kinases

Tyrosine kinases represent the largest class of protein kinases. These enzymes can be further sub-categorized into receptor tyrosine kinases (RTKs) and cytoplasmic tyrosine kinases (non-receptor tyrosine kinases; NRTKs). RTKs often act as cell surface receptors that are essential for regulating many fundamental cellular processes, including cell growth, differentiation, migration and survival. Dysregulated RTK signaling plays a prominent role in the development and progression of many types of cancers. Therefore, RTKs are amongst the most popular targets for therapeutic intervention in oncology. They are localized to within the plasma membrane, RTKs can be targeted by monoclonal antibodies (mAbs) and small molecule kinase inhibitors (SMKIs). In the span of twenty years, RTK-targeted therapies have led to a paradigm shift in the way many types of cancers are treated; benefiting patients with decreased side-effects and increased survival rates. Several of the larger subfamilies within the NRTKs include the SRC, JAK, TEC and ABL kinases. Aberrant activation of NTRKS can lead to the development of disease. The Philadelphia chromosome refers to a reciprocal translocation between chromosomes 9 and 22, that yields the oncogenic BCR-ABL fusion gene. This chromosomal rearrangement is found in most patients with chronic myelogenous leukemia (CML), and in some patients with acute lymphoblastic leukemia (ALL) or acute myelogenous leukemia (AML). Since the FDA approval of Gleevec and other related drugs, the survival rates of CML has doubled.

TKL Kinases

The TKL subfamily share sequence similarity to tyrosine kinases. This divergent group includes several smaller groups, including IL1 Receptor Associated Kinases (IRAKs) and Receptor Interacting Protein Kinases (RIPKs). IRAKs and RIPKs activate innate and active immune responses as effectors of Toll-like receptors (TLRs). IRAK4 deficiency provides protection from developing rheumatoid arthritis (RA), prompting the development of drugs IRAK4-targeted drugs to treat autoimmune diseases. RIPKs 1 and 3 are instrumental inhibiting and triggering necroptosis, a condition which causes leakage of cellular contents. In turn, byproducts of necroptosis are recognized by TLRs; thus driving a mechanism that promotes inflammation in a feed-forward manner.

Atypical Kinases

Eukaryotic Protein Kinases (ePKs) include most of the kinase enzymes in humans. Atypical kinases differ from stereotypical ePKs in the sequence of their catalytic domains. Atypical kinases include several medically relevant enzymes, such as BCR and the PDHK subgroups. The constitutively active kinase BCR-ABL is a hallmark of Chronic Myeloid Leukemia (CML). Numerous TKIs have been developed to specifically target this BCR-ABL and its TKI resistant secondary mutant variants. PDHKs regulate mitochondrial metabolism by inhibiting the Krebs cycle, making PDHK an attractive target for therapies to manage metabolic disorders such as diabetes.

Other Kinases

There are many kinases that cannot be classified within the framework of conventional subfamilies. These “other” kinases include notable groups, such as the Aurora kinases. There are three Aurora kinases in humans. These serine/threonine kinases are essential for regulating various aspects of mitosis, including: checkpoint monitoring, spindle assembly, centrosome alignment and cytokinesis. Thus, defects in Aurora kinases are connected to the production of aneuploid, polyploid and multinucleate cells. Aurora kinases are emerging as important targets for the treatment of many types of solid and hematological cancers.

Protein Kinases

Protein kinases act on proteins by phosphorylating them on their serine, threonine, tyrosine, or histidine residues. Phosphorylation can modify the function of protein in many ways. It can increase or decrease a protein's activity, stabilize it or mark it for destruction, localize it in specific cellular compartment. Protein kinases make up the majority of all kinases and are widely studied. Protein kinase activity is highly regulated, allowing it to participate in diverse signaling pathways within the cell. Growth factors, cytokines and hormones can turn on or off the activity of various protein kinases, thereby regulating the function of downstream substrate proteins. Due to the key regulatory function of protein kinases on cellular pathways, they are often highly associated with diseases. Defective signaling by protein kinases accounts for more than 400 human diseases. Today, these targets are still being actively pursued for therapeutic intervention. Research geared toward targeting protein kinases by small molecule inhibitors or neutralizing antibodies has been extremely beneficial in the treatment of various human diseases such as cancer. Over 160 protein kinases have been shown to be associated with human diseases, and numerous kinases have been found as the drug targets which are being developed and under approval by the FDA.

Product Name	Subcategory	Cat# No	Species	Tag	Expression System	Sequence
AAK1, Active	Other kinase	A01-11G	Human	GST	Sf9 cells	1-465
ABL1, Active	TK kinase	A03-11H	Mouse	HIS	Sf9 cells	27-end
ABL1, Active	TK kinase	A03-18H	Human	HIS	Sf9 cells	27-end
ABL2, Active	TK kinase	A04-11H	Human	HIS	Sf9 cells	38-end
ACK, Active	TK kinase	A05-11G	Human	GST	Sf9 cells	110-476
ACVR2A, Active	TKL kinase	A35-11H	Human	HIS	Sf9 cells	161-end
AKT1, Active	AGC kinase	A16-10G	Human	GST	Sf9 cells	Full Length
AKT2, Active	AGC kinase	A17-10H	Human	HIS	Sf9 cells	Full Length
AKT2, Active	AGC kinase	A17-10G	Human	GST	Sf9 cells	Full Length
AKT3, Active	AGC kinase	A18-10G	Human	GST	Sf9 cells	Full Length
ALK, Active	TK kinase	A19-11G	Human	GST	Sf9 cells	1060-end
ALK1, Active	TKL kinase	A09-11G	Human	GST	Sf9 cells	144-end
ALK2, Active	TKL kinase	A06-11G	Human	GST	Sf9 cells	147-end
ALK3 (BMPR1A), Active	TKL kinase	B04-11G	Human	GST	Sf9 cells	187-end
ALK4, Active	TKL kinase	A07-11G	Human	GST	Sf9 cells	150-end
ALK6 (BMPR1B), Active	TKL kinase	B05-11G	Human	GST	Sf9 cells	149-end
AMPK (A1/B1/G1), Active	CAMK kinase	P47-10H	Human	HIS	Sf9 cells	Full Length
AMPK (A1/B1/G1), Active	CAMK kinase	P47-110GH	Human	GST/HIS	Sf9 cells	Full length
AMPK (A1/B1/G2), Active	CAMK kinase	P55-10H	Human	HIS	Sf9 cells	Full Length
AMPK (A1/B1/G2), Active	CAMK kinase	P55-10G	Human	GST/HIS	Sf9 cells	Full Length
AMPK (A1/B1/G3), Active	CAMK kinase	P56-10H	Human	HIS	Sf9 cells	Full Length
AMPK (A1/B1/G3), Active	CAMK kinase	P56-10G	Human	GST/HIS	Sf9 cells	Full Length
AMPK (A1/B2/G1), Active	CAMK kinase	P50-10H	Human	HIS	Sf9 cells	Full Length
AMPK (A1/B2/G1), Active	CAMK kinase	P50-10G	Human	GST/HIS	Sf9 cells	Full Length
AMPK (A1/B2/G2), Active	CAMK kinase	P45-10G	Human	GST/HIS	Sf9 cells	Full Length
AMPK (A1/B2/G3), Active	CAMK kinase	P83-10G	Human	GST/HIS	Sf9 cells	Full Length
AMPK (A2/B1/G1), Active	CAMK kinase	P48-10H	Human	HIS	Sf9 cells	Full Length

Product Name	Subcategory	Cat# No	Species	Tag	Expression System	Sequence
AMPK (A2/B1/G2), Active	CAMK kinase	P84-10GH	Human	GST/HIS	Sf9 cells	Full Length
AMPK (A2/B1/G3), Active	CAMK kinase	P85-10GH	Human	GST/HIS	Sf9 cells	Full Length
AMPK (A2/B2/G1), Active	CAMK kinase	P49-10H	Human	HIS	Sf9 cells	Full Length
AMPK (A2/B2/G1), Active	CAMK kinase	P49-10GH	Human	GST/HIS	Sf9 cells	Full Length
AMPK (A2/B2/G1), Active	CAMK kinase	P49M-10H	Mouse	HIS	Sf9 cells	Full-Length
AMPK (A2/B2/G2), Active	CAMK kinase	P54-10H	Human	HIS	Sf9 cells	Full Length
AMPK (A2/B2/G2), Active	CAMK kinase	P54-10GH	Human	GST/HIS	Sf9 cells	Full Length
AMPK (A2/B2/G3), Active	CAMK kinase	P46-10GH	Human	GST/HIS	Sf9 cells	Full Length
AMPK(A1/B2/G1), Active	CAMK kinase	P50M-10H	Mouse	HIS	Sf9 cells	Full Length
ANKK1 (SGK288), Active	TKL kinase	A20-10G	Human	GST	Sf9 cells	Full Length
ASK1, Active	STE kinase	M13-11G	Human	GST	Sf9 cells	649-946
ASK1, Active	STE kinase	M13-10G	Human	GST	Sf9 cells	Full Length
ASK3, Active	STE kinase	M73-10G	Human	GST	Sf9 cells	Full-Length
AURORA A, Active	Other kinase	A28-10G	Mouse	GST	Sf9 cells	Full Length
AURORA A, Active	Other kinase	A28-18G	Human	GST	Sf9 cells	Full Length
AURORA A, Active	STE kinase	A28-18H	Human	HIS	Sf9 cells	Full length
AURORA B, Active	Other kinase	A31-10G	Human	GST	Sf9 cells	Full Length
Aurora B, Active	STE kinase	A31-10H	Human	HIS	Sf9 cells	Full length
AURORA C, Active	Other kinase	A33-10G	Human	GST	Sf9 cells	Full Length
AXL, Active	TK kinase	A34-11H	Human	HIS	Sf9 cells	473-end
AXL, Active	TK kinase	A34-11G	Human	GST	Sf9 cells	473-end
BLK, Active	TK kinase	B02-10G	Human	GST	Sf9 cells	Full Length
BMP2K, Active	Other kinase	B03B-11G	Mouse	GST	Sf9 cells	1-422
BMPR2, Active	TKL kinase	B06-11H	Human	HIS	Sf9 cells	174-end
BMX, Active	TK kinase	B07-10G	Human	GST	Sf9 cells	Full Length
BMX, Active	TK kinase	B07-10CG	Rat	GST	Sf9 cells	Full Length
BRAF, Active	TKL kinase	B08-11G	Human	GST	Sf9 cells	416-766
BRAF, Active	TKL kinase	B08-11BG	Human	GST	Sf9 cells	381-end or exon 9-18
BRK, Active	TK kinase	P94-10G	Human	GST	Sf9 cells	Full Length
BRSK1, Active	CAMK kinase	B13-10G	Mouse	GST	Sf9 cells	Full Length
BRSK2, Active	CAMK kinase	B14-10G	Human	GST	Sf9 cells	Full Length
BTK, Active	TK kinase	B10-10H	Human	HIS	Sf9 cells	Full Length
BTK, Active	TK kinase	B10-10CG	Rat	GST	Sf9 cells	Full Length
BUB1B, Active	Other kinase	B12-11G	Human	GST	Sf9 cells	613-end
CAMK1 beta, Active	CAMK kinase	C08-10G	Mouse	GST	Sf9 cells	Full Length
CAMK1 delta, Active	CAMK kinase	C09-10G	Human	GST	Sf9 cells	Full Length
CAMK1 gamma, Active	CAMK kinase	C10-11G	Human	GST	Sf9 cells	1-330
CAMK1 gamma, Active	CAMK kinase	C10-10BG	Human	GST	Sf9 cells	Full Length
CAMK1, Active	CAMK kinase	C07-10G	Mouse	GST	E.coli	Full Length
CAMK2 alpha, Active	CAMK kinase	C11-10G	Human	GST	Sf9 cells	Full Length

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CAMK2 beta, Active	CAMK kinase	C12-10H	Human	HIS	Sf9 cells	Full Length
CAMK2 beta, Active	CAMK kinase	C12-10G	Human	GST	Sf9 cells	Full Length
CAMK2 delta, Active	CAMK kinase	C13-10G	Human	GST	Sf9 cells	Full Length
CAMK2 gamma, Active	CAMK kinase	C14-10G	Human	GST	Sf9 cells	c-terminal truncation
CAMK2 gamma, Active	CAMK kinase	C14-10BG	Human	GST	Sf9 cells	Full Length
CAMK4, Active	CAMK kinase	C15-10G	Human	GST	Sf9 cells	Full Length
CAMKK1, Active	Other kinase	C17-10G	Human	GST	Sf9 cells	Full Length
CAMKK1, Active	Other kinase	C17-18G	Rat	GST	Sf9 cells	Full Length
CAMKK2, Active	Other kinase	C18-10G	Human	GST	Sf9 cells	Full Length
CASK, Active	CAMK kinase	C19-11G	Human	GST	Sf9 cells	1-570
CDC42BPG (DMPK2), Active	AGC kinase	D17-11G	Human	GST	Sf9 cells	1-475
CDC7/DBF4, Active	Other kinase	C26-10G	Human	GST	Sf9 cells	Full Length
CDK1/CyclinA1, Active	CMGC kinase	C22-18BG	Human	GST	Sf9 cells	Full Length
CDK1/CyclinA2, Active	CMGC kinase	C22-18G	Human	GST	Sf9 cells	Full Length
CDK1/CyclinB1, Active	CMGC kinase	C22-10G	Human	GST	Sf9 cells	Full Length
CDK10/CyclinM Protein	CMGC kinase	C41-34G	Human	GST	Sf9 cells	Full length
CDK2/CyclinA1, Active	CMGC kinase	C29-10BG	Human	GST	Sf9 cells	Full Length
CDK2/CyclinA2, Active	CMGC kinase	C29-10G	Human	GST	Sf9 cells	Full Length
CDK2/CyclinE1, Active	CMGC kinase	C29-18G	Human	GST	Sf9 cells	Full Length
CDK2/CyclinE2, Active	CMGC kinase	C29-18BG	Human	GST	Sf9 cells	Full Length
CDK2/CyclinO, Active	CMGC kinase	C29-19G	Human	GST	Sf9 cells	Full Length
CDK3/CyclinE1, Active	CMGC kinase	C30-10G	Human	GST	Sf9 cells	Full Length
CDK3/CyclinE2, Active	CMGC kinase	C30-10BG	Human	GST	Sf9 cells	Full Length
CDK4/CyclinD1, Active	CMGC kinase	C31-10G	Human	GST	Sf9 cells	Full Length
CDK4/CyclinD3, Active	CMGC kinase	C31-18G	Human	GST	Sf9 cells	Full Length
CDK5/p25, Active	CMGC kinase	C33-10G	Human	GST	Sf9 cells	Full Length
CDK5/p35, Active	CMGC kinase	C33-10BG	Human	GST	Sf9 cells	Full Length
CDK6/CyclinD1, Active	CMGC kinase	C35-18H	Human	GST/HIS	Sf9 cells	Full Length
CDK6/CyclinD3, Active	CMGC kinase	C35-10H	Human	HIS	Sf9 cells	Full Length
CDK7/CyclinH1, Active	CMGC kinase	C36-102H	Human	HIS	Sf9 cells	Full Length
CDK7/CyclinH1/MNAT1, Active	CMGC kinase	C36-10H	Human	HIS	Sf9 cells	Full Length
CDK9/CyclinK, Active	CMGC kinase	C40-10G	Human	GST	Sf9 cells	Full Length
CDK9/CyclinT1, Active	CMGC kinase	C40-18CG	Human	GST	Sf9 cells	Full length
CDK9/CyclinT2, Active	CMGC kinase	C40-18BG	Human	GST	Sf9 cells	Full Length
CHK1, Active	CAMK kinase	C47-10G	Human	GST	Sf9 cells	Full Length
CHK1, Active	CAMK kinase	C47-10H	Human	HIS	Sf9 cells	Full Length
CHK2, Active	CAMK kinase	C48-10G	Human	GST	Sf9 cells	Full Length
CHK2, Active	CAMK kinase	C48-10H	Human	HIS	Sf9 cells	Full length
CK1 alpha 1, Active	CK1 kinase	C64-10G	Human	GST	Sf9 cells	Full Length
CK1 alpha 1L, Active	CK1 kinase	C75-10G	Human	GST	Sf9 cells	Full Length
CK1 delta, Active	CK1 kinase	C65-10G	Human	GST	Sf9 cells	Full Length

Product Name	Subcategory	Cat# No	Species	Tag	Expression System	Sequence
CK1 epsilon, Active	CK1 kinase	C66-10G	Human	GST	Sf9 cells	Full Length
CK1 gamma 1, Active	CK1 kinase	C68-11G	Human	GST	Sf9 cells	21-end
CK1 gamma 2, Active	CK1 kinase	C68-10BG	Human	GST	Sf9 cells	Full Length
CK1 gamma 3, Active	CK1 kinase	C68-10CG	Human	GST	Sf9 cells	Full Length
CK2 alpha 1, Active	CMGC kinase	C70-10G	Human	GST	Sf9 cells	Full Length
CK2 alpha 2, Active	CMGC kinase	C71-10G	Human	GST	Sf9 cells	Full Length
c-KIT, Active	TK kinase	K06-11BG	Human	GST	Sf9 cells	544-end
CLK1, Active	CMGC kinase	C57-11G	Human	GST	Sf9 cells	129-end
CLK2, Active	CMGC kinase	C58-11G	Human	GST	Sf9 cells	137-end
CLK3, Active	CMGC kinase	C60-10G	Human	GST	Sf9 cells	Full Length
CLK4, Active	CMGC kinase	C61-11G	Human	GST	Sf9 cells	70-end
c-MER, Active	TK kinase	M51-11G	Human	GST	Sf9 cells	578-872
c-MER, Active	TK kinase	M51-112G	Human	GST	Sf9 cells	528-end
c-MER, Active	TK kinase	M51-172G	Mouse	GST	Sf9 cells	528-end
COT, Active	STE kinase	M16-11G	Human	GST	Sf9 cells	30-397
CSK, Active	TK kinase	C63-10G	Human	GST	Sf9 cells	Full Length
CSK, Active	TK kinase	C63-10U	Human	TAG-Free	Sf9 cells	Full Length
DAPK1, Active	CAMK kinase	D01-11G	Human	GST	Sf9 cells	1-363
DAPK2, Active	CAMK kinase	D02-10G	Human	GST	Sf9 cells	Full Length
DAPK3, Active	CAMK kinase	D03-10G	Human	GST	Sf9 cells	Full Length
DCAMKL1, Active	CAMK kinase	D14-10G	Human	GST	Sf9 cells	Full Length
DCAMKL1, Active	CAMK kinase	D14-11G	Human	GST	Sf9 cells	266-end
DCAMKL1, Active	CAMK kinase	D14-10H	Human	HIS	Sf9 cells	Full Length
DCAMKL2, Active	CAMK kinase	D15-11G	Human	GST	Sf9 cells	1-690
DDR1, Active	TK kinase	D05-11G	Human	GST	Sf9 cells	444-end
DDR2, Active	TK kinase	D06-11BG	Human	GST	Sf9 cells	467-end
DLK, Active	TKL kinase	M20-11G	Human	GST	Sf9 cells	1-520
DMPK, Active	AGC kinase	D07-10G	Human	GST	Sf9 cells	Full Length
DRAK1 (STK17A), Active	CAMK kinase	S33-10G	Human	GST	Sf9 cells	Full Length
DRAK2 (STK17B), Active	CAMK kinase	S34-10G	Human	GST	Sf9 cells	Full Length
DTYMK, Active	Other kinase	D31-11G	Human	GST	Sf9 cells	2-end
DYRK1A, Active	CMGC kinase	D09-10G	Rat	GST	E.coli	Full Length
DYRK1B, Active	CMGC kinase	D09-10BG	Human	GST	Sf9 cells	Full-Length
DYRK2, Active	CMGC kinase	D10-10G	Human	GST	E.coli	Full Length
DYRK3, Active	CMGC kinase	D11-11G	Human	GST	E.coli	63-end
DYRK4, Active	CMGC kinase	D12-10G	Human	GST	Sf9 cells	Full Length
EEF2K, Active	Atypical kinase	E01-10G	Human	GST	Sf9 cells	Full Length
EGFR, Active	TK kinase	E10-112G	Human	GST	Sf9 cells	668-end
EGFR, Active	TK kinase	E10-112H	Human	HIS	Sf9 cells	668-end
EIF2AK1 (HRI), Active	Other kinase	H07-10G	Human	GST	Sf9 cells	Full Length

Product Name	Subcategory	Cat# No	Species	Tag	Expression System	Sequence
EIF2AK2, Active	Other kinase	P80-11G	Human	GST	Sf9 cells	252-end
EIF2AK3, Active	Other kinase	E11-11G	Human	GST	E.coli	563-1115
EIF2AK4 (GCN2), Active	Other kinase	E12-11G	Human	GST	Sf9 cells	192-1024
EPHA1, Active	TK kinase	E13-11G	Mouse	GST	Sf9 cells	569-end
EPHA1, Active	TK kinase	E13-18G	Human	GST	Sf9 cells	569-end
EPHA1, Active	TK kinase	E13-18BG	Human	GST	Sf9 cells	613-892
EPHA2, Active	TK kinase	E14-11G	Human	GST	Sf9 cells	561-end
EPHA3, Active	TK kinase	E15-11G	Human	GST	Sf9 cells	571-end
EPHA4, Active	TK kinase	E16-11G	Human	GST	Sf9 cells	610-887
EPHA4, Active	TK kinase	E16-11BG	Human	GST	Sf9 cells	570-end
EPHA6, Active	TK kinase	E18-11G	Human	GST	Sf9 cells	683-end
EPHA7, Active	TK kinase	E19-11G	Mouse	GST	Sf9 cells	580-end
EPHB1, Active	TK kinase	E21-11G	Mouse	GST	Sf9 cells	591-end
EPHB2, Active	TK kinase	E22-11G	Human	GST	Sf9 cells	570-end
EPHB2, Active	TK kinase	E22-11BG	Human	GST	Sf9 cells	611-893
EPHB3, Active	TK kinase	E23-11G	Human	GST	Sf9 cells	585-end
EPHB4, Active	TK kinase	E24-11G	Human	GST	Sf9 cells	561-end
EPHB4, Active	TK kinase	E24-11H	Human	HIS	Sf9 cells	561-end
ERK1, Active	CMGC kinase	M29-10U	Human	TAG-Free	E.coli	Full Length
ERK1, Active	CMGC kinase	M29-10G	Human	GST	E.coli	Full Length
ERK2, Active	CMGC kinase	M28-10G	Human	GST	E.coli	Full Length
ERK3 (MAPK6), Active	CMGC kinase	M31-10G	Human	GST	Sf9 cells	Full Length
ERK5, Active	CMGC kinase	M32-10G	Human	GST	Sf9 cells	Full Length
ERK5, Unactive	CMGC kinase	M32-14G	Human	GST	Sf9 cells	Full Length
ERK7 (MAPK15), Active	CMGC kinase	M47-10BG	Mouse	GST	Sf9 cells	Full Length
ERN1 (IRE1), Active	Other kinase	E31-11G	Human	GST	Sf9 cells	468-end
ERN1 (IRE1), Active	Other kinase	E31M-11G	Mouse	GST	Sf9 cells	469-end
ERN2 (IRE2), Active	Other kinase	E32-11G	Human	GST	Sf9 cells	499-end
FAK, Active	TK kinase	P91-11H	Human	HIS	Sf9 cells	393-698
FAK, Active	TK kinase	P91-10G	Human	GST	Sf9 cells	Full Length
FASTK, Active	Atypical kinase	F01-10G	Human	GST	Sf9 cells	Full Length
FER, Active	TK kinase	F16-11G	Mouse	GST	Sf9 cells	542-end
FES, Active	TK kinase	F03-10G	Human	GST	Sf9 cells	Full Length
FGFR1 (FLT2), Active	TK kinase	F04-11G	Human	GST	Sf9 cells	399-822
FGFR2, Active	TK kinase	F05-11G	Human	GST	Sf9 cells	285-end
FGFR3, Active	TK kinase	F06-11G	Human	GST	Sf9 cells	397-end
FGFR4, Active	TK kinase	F07-11G	Human	GST	Sf9 cells	460-end
FGR, Active	TK kinase	F10-10G	Human	GST	Sf9 cells	Full Length
FLT1, Active	TK kinase	F11-11G	Human	GST	Sf9 cells	784-end
FLT3, Active	TK kinase	F12-11G	Human	GST	Sf9 cells	571-993
FLT4, Active	TK kinase	F13-11G	Human	GST	Sf9 cells	800-end

Product Name	Subcategory	Cat# No	Species	Tag	Expression System	Sequence
FMS, Active	TK kinase	C74-11G	Human	GST	Sf9 cells	539-end
FRK, Active	TK kinase	F14-11G	Human	GST	Sf9 cells	208-end
FYN A, Active	TK kinase	F15-10G	Human	GST	Sf9 cells	Full Length
GAK, Active	Other kinase	G01-11G	Human	GST	Sf9 cells	1-396
GCK, Active	STE kinase	M24-10G	Human	GST	Sf9 cells	Full Length
GLK, Active	STE kinase	M25-11G	Human	GST	Sf9 cells	1-380
GRK1, Active	AGC kinase	R03-10G	Human	GST	Sf9 cells	Full Length
GRK2, Active	AGC kinase	A14-10G	Human	GST	Sf9 cells	Full Length
GRK3, Active	AGC kinase	A15-11G	Human	GST	Sf9 cells	1-554
GRK5, Active	AGC kinase	G03-10G	Human	GST	Sf9 cells	Full Length
GRK6, Active	AGC kinase	G04-10G	Human	GST	Sf9 cells	Full Length
GRK7, Active	AGC kinase	G05-10G	Human	GST	Sf9 cells	Full Length
GSK3 alpha, Active	CMGC kinase	G08-10G	Human	GST	Sf9 cells	Full Length
GSK3 beta, Active	CMGC kinase	G09-10G	Human	GST	Sf9 cells	Full Length
GSK3 beta, Active	CMGC kinase	G09-10H	Human	HIS	Sf9 cells	Full Length
Haspin (GSG2), Active	Other kinase	G10-11G	Human	GST	Sf9 cells	470-end
HCK, Active	TK kinase	H02-11G	Human	GST	Sf9 cells	230-497
HER2, Active	TK kinase	E27-11G	Human	GST	Sf9 cells	676-end
HER2, Active	TK kinase	E27-11H	Human	HIS	Sf9 cells	676-end
HER4, Active	TK kinase	E29-11G	Human	GST	Sf9 cells	682-993
HGK, Active	STE kinase	M26-11G	Human	GST	Sf9 cells	1-328
HIPK1, Active	CMGC kinase	H03-11G	Human	GST	Sf9 cells	156-555
HIPK2, Active	CMGC kinase	H04-11G	Mouse	GST	Sf9 cells	153-564
HIPK2, Active	CMGC kinase	H04-11BG	Human	GST	Sf9 cells	1-640
HIPK3, Active	CMGC kinase	H05-13H	Human	HIS	Sf9 cells	163-562
HIPK4, Active	CMGC kinase	H06-10G	Human	GST	Sf9 cells	Full Length
HIPK4, Active	CMGC kinase	H06-10H	Human	HIS	Sf9 cells	Full Length
HPK1, Active	STE kinase	M23-11G	Human	GST	Sf9 cells	1-346
HPK1, Active	STE kinase	M23-11BG	Mouse	GST	Sf9 cells	1-346
HPK1, Active	STE kinase	M23-10G	Human	GST	Sf9 cells	Full Length
HUNK, Active	CAMK kinase	H08-10G	Human	GST	Sf9 cells	Full Length
ICK, Active	CMGC kinase	I01-10G	Human	GST	Sf9 cells	Full Length
IGF1R, Active	TK kinase	I02-11H	Human	HIS	Sf9 cells	960-end
IKK alpha, Active	Other kinase	C51-10G	Human	GST	Sf9 cells	Full Length
IKK beta, Active	Other kinase	I03-10BG	Human	GST	Sf9 cells	1-662
IKK beta, Active	Other kinase	I03-18G	Human	GST	Sf9 cells	Full Length
IKK beta, Active	Other kinase	I03M-10BG	Mouse	GST	Sf9 cells	1-662
IKK epsilon, Active	Other kinase	I04-10G	Human	GST	Sf9 cells	Full Length
InsR, Active	TK kinase	I08-11G	Human	GST	Sf9 cells	1011-end
IRAK1 (catalytic domain), Active	TKL kinase	I09-11G	Human	GST	Sf9 cells	194-end

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IRAK1, Active	TKL kinase	I09-10G	Human	GST	Sf9 cells	Full Length
IRAK2, Active	TKL kinase	I10-10BG	Human	GST	Sf9 cells	Full Length
IRAK4 (catalytic domain), Active	TKL kinase	I12-11G	Human	GST	Sf9 cells	104 a.a. end
IRAK4, Active	TKL kinase	I12-10G	Human	GST	Sf9 cells	Full Length
IRR, Active	TK kinase	I07-11G	Human	GST	Sf9 cells	945-end
ITK, Active	TK kinase	I13-11G	Human	GST	Sf9 cells	352-end
ITK, Active	TK kinase	I13-10G	Human	GST	Sf9 cells	Full Length
JAK1, Active	TK kinase	J01-11G	Human	GST	Sf9 cells	438-end
JAK2, Active	TK kinase	J02-11G	Human	GST	Sf9 cells	804-end
JAK3, Active	TK kinase	J03-11G	Human	GST	Sf9 cells	781-end
JNK1, Active	CMGC kinase	M33-10G	Mouse	GST	Sf9 cells	Full Length
JNK2, Active	CMGC kinase	M34-10BG	Human	GST	Sf9 cells	Full Length
JNK3, Active	CMGC kinase	M35-10BG	Human	GST	Sf9 cells	Full Length
KDR, Active	TK kinase	K01-11G	Human	GST	Sf9 cells	789-end
KHS1, Active	STE kinase	M27-10G	Human	GST	Sf9 cells	Full Length
KSR1, Active	TKL kinase	K07-11BG	Human	GST	Sf9 cells	431-end
KSR1, Active	TKL kinase	K07-11CG	Human	GST	Sf9 cells	335-end
KSR2, Active	TKL kinase	K08-11G	Human	GST	Sf9 cells	554-end
LATS1, Active	AGC kinase	L01-11G	Human	GST	Sf9 cells	589-end
LATS2, Active	AGC kinase	L02-11G	Human	GST	Sf9 cells	480-1088
LCK, Active	TK kinase	L03-10G	Human	GST	Sf9 cells	Full Length
LIMK1, Active	TKL kinase	L04-11G	Human	GST	Sf9 cells	285-638
LIMK2, Active	TKL kinase	L05-10G	Human	GST	Sf9 cells	Full Length
LOK, Active	STE kinase	S29-11G	Human	GST	Sf9 cells	1-348
LOK, Active	STE kinase	S29-10G	Human	GST	Sf9 cells	Full length
LRRK1, Active	TKL kinase	L09-11G	Human	GST	Sf9 cells	622-1610
LRRK2, Active	TKL kinase	L10-11G	Human	GST	Sf9 cells	968-end
LTK, Active	TK kinase	L11-11G	Human	GST	Sf9 cells	450-864
LYN A, Active	TK kinase	L13-18G	Human	GST	Sf9 cells	Full Length
LYN B, Active	TK kinase	L13-10G	Human	GST	Sf9 cells	Full Length
MAK, Active	CMGC kinase	M01-10G	Human	GST	Sf9 cells	Full Length
MAPKAPK2, Active	CAMK kinase	M40-11G	Human	GST	Sf9 cells	46-end
MAPKAPK2, Active	CAMK kinase	M40-11H	Human	HIS	Sf9 cells	46-end
MAPKAPK3, Active	CAMK kinase	M41-10G	Human	GST	Sf9 cells	Full Length
MAPKAPK5, Active	CAMK kinase	M42-10G	Human	GST	Sf9 cells	Full Length
MARK1, Active	CAMK kinase	M43-10G	Human	GST	Sf9 cells	Full Length
MARK2, Active	CAMK kinase	M44-10G	Human	GST	Sf9 cells	Full Length
MARK3, Active	CAMK kinase	M45-10G	Human	GST	Sf9 cells	Full Length
MARK4, Active	CAMK kinase	M46-10G	Human	GST	Sf9 cells	Full Length
MAST3, Active	AGC kinase	M70-11G	Human	GST	Sf9 cells	1-723a.a.
MASTL, Active	AGC kinase	M72-10G	Human	GST	Sf9 cells	Full Length

Product Name	Subcategory	Cat# No	Species	Tag	Expression System	Sequence
MATK (CTK), Active	TK kinase	M49-10G	Human	GST	Sf9 cells	Full Length
MEK1 (EE), Active	STE kinase	M02-12G	Mouse	GST	E.coli	Full Length
MEK1, Active	STE kinase	M02-10G	Human	GST	Sf9 cells	Full Length
MEK2, Active	STE kinase	M03-10G	Human	GST	Sf9 cells	Full Length
MEK3 (MAP2K3), Active	STE kinase	M04-10G	Human	GST	Sf9 cells	Full Length
MEK4 (MAP2K4), Active	STE kinase	M05-10G	Human	GST	Sf9 cells	Full Length
MEK5, Active	STE kinase	M06-10G	Human	GST	Sf9 cells	Full Length
MEK6, Active	STE kinase	M07-10G	Human	GST	Sf9 cells	Full Length
MEK7, Active	STE kinase	M08-10G	Human	GST	Sf9 cells	Full Length
MEKK1, Active	STE kinase	M09-11G	Human	GST	Sf9 cells	900-1748
MEKK2, Active	STE kinase	M10-10G	Human	GST	Sf9 cells	Full Length
MEKK3, Active	STE kinase	M11-10G	Human	GST	Sf9 cells	Full Length
MEKK4, Active	STE kinase	M12-11G	Human	GST	Sf9 cells	1203-end
MEKK6 (ASK2), Active	STE kinase	M14-11G	Human	GST	Sf9 cells	620-950
MEKK6 (ASK2), Active	STE kinase	M14-10G	Human	GST	Sf9 cells	Full length
MELK, Active	CAMK kinase	M50-11G	Human	GST	Sf9 cells	1-340
MELK, Active	CAMK kinase	M50-18G	Human	GST	Sf9 cells	1-550
MET, Active	TK kinase	M52-11G	Rat	GST	Sf9 cells	958-end
MET, Active	TK kinase	M52-18G	Human	GST	Sf9 cells	956-end
MINK1, Active	STE kinase	M53-11G	Human	GST	Sf9 cells	1-320
MKK4, Active	STE kinase	M05-10H	Human	HIS	Sf9 cells	Full Length
MLCK, Active	CAMK kinase	M62-11G	Human	GST	Sf9 cells	1425-1776
MLK1, Active	TKL kinase	M17-11G	Human	GST	Sf9 cells	1-433
MLK2, Active	TKL kinase	M18-11G	Human	GST	Sf9 cells	1-446
MLK3, Active	TKL kinase	M19-11G	Human	GST	Sf9 cells	1-488
MLK4, Active	TKL kinase	M48-11G	Human	GST	Sf9 cells	114-420
MNK1, Active	CAMK kinase	M54-10G	Human	GST	Sf9 cells	Full Length
MNK2, Active	CAMK kinase	M55-10G	Human	GST	Sf9 cells	Full Length
MRCK alpha, Active	AGC kinase	C27-11G	Human	GST	Sf9 cells	1-473
MRCK beta, Active	AGC kinase	C28-11G	Human	GST	Sf9 cells	1-473
MSK1, Active	AGC kinase	R19-10G	Human	GST	Sf9 cells	Full Length
MSK2, Active	AGC kinase	R18-10G	Mouse	GST	Sf9 cells	Full Length
MSSK1, Active	CMGC kinase	S41-10G	Human	GST	Sf9 cells	Full Length
MST1, Active	STE kinase	S25-10G	Human	GST	Sf9 cells	Full Length
MST3, Active	STE kinase	S42-11G	Human	GST	Sf9 cells	1-311
MST4, Active	STE kinase	M59-10G	Human	GST	Sf9 cells	Full Length
MUSK, Active	TK kinase	M60-11G	Human	GST	Sf9 cells	519-end
MYLK2, Active	CAMK kinase	M63-10H	Human	HIS	Sf9 cells	Full Length
MYLK3, Active	CAMK kinase	M64-10G	Human	GST	Sf9 cells	Full Length
MYLK4, Active	CAMK kinase	M74-10G	Human	GST	Sf9 cells	Full Length

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Product Name	Subcategory	Cat# No	Species	Tag	Expression System	Sequence
MYO3 beta, Active	STE kinase	M66-11G	Human	GST	Sf9 cells	1-326
MYO3alpha, Active	STE kinase	M65-11G	Human	GST	Sf9 cells	1-434
MYT1, Active	Other kinase	M67-10G	Human	GST	Sf9 cells	Full length
NDR, Active	AGC kinase	S49-10G	Human	GST	Sf9 cells	Full Length
NDR2, Active	AGC kinase	S50-10G	Human	GST	Sf9 cells	Full Length
NEK1, Active	Other kinase	N02-11G	Mouse	GST	Sf9 cells	1-495
NEK1, Active	Other kinase	N02-18G	Human	GST	Sf9 cells	1-477
NEK10, Active	Other kinase	N12-11G	Human	GST	Sf9 cells	266-895
NEK11, Active	Other kinase	N13-10G	Human	GST	Sf9 cells	Full Length
NEK2, Active	Other kinase	N03-10G	Human	GST	Sf9 cells	Full Length
NEK3, Active	Other kinase	N05-10G	Human	GST	Sf9 cells	Full Length
NEK4, Active	Other kinase	N06-10G	Human	GST	Sf9 cells	Full Length
NEK5, Active	Other kinase	N07-11G	Human	GST	Sf9 cells	1-508
NEK6, Active	Other kinase	N08-10G	Human	GST	Sf9 cells	Full Length
NEK7, Active	Other kinase	N09-10G	Human	GST	Sf9 cells	Full Length
NEK8, Active	Other kinase	N10-11G	Human	GST	Sf9 cells	1-322
NEK9, Active	Other kinase	N11-11G	Human	GST	Sf9 cells	1-979; deleted fragment of 346-731
NIK, Active	STE kinase	M22-11G	Human	GST	Sf9 cells	325-end
NIM1, Active	CAMK kinase	N14-10G	Human	GST	Sf9 cells	Full Length
NLK, Active	CMGC kinase	N15-10G	Human	GST	Sf9 cells	Full Length
NUAK1, Active	CAMK kinase	N19-10G	Human	GST	Sf9 cells	Full Length
NUAK2, Active	CAMK kinase	N20-10G	Human	GST	Sf9 cells	Full Length
p38 alpha, Active	CMGC kinase	M39-10BG	Human	GST	Sf9 cells	Full Length
p38 beta, Active	CMGC kinase	M36-10BG	Human	GST	Sf9 cells	Full Length
p38 delta, Active	CMGC kinase	M38-10BG	Human	GST	Sf9 cells	Full Length
p38 gamma, Active	CMGC kinase	M37-10BG	Human	GST	Sf9 cells	Full Length
p70S6K, Active	AGC kinase	R21-10H	Human	HIS	Sf9 cells	Full Length
p70S6Kb, Active	AGC kinase	R22-10G	Human	GST	Sf9 cells	Full Length
PAK1, Active	STE kinase	P02B-10BG	Human	GST	Sf9 cells	Full length
PAK1/CDC42, Active	STE kinase	P02-10G	Human	GST	Sf9 cells	Full Length
PAK3, Active	STE kinase	P04-10G	Mouse	GST	Sf9 cells	Full Length
PAK4, Active	STE kinase	P05-10BG	Human	GST	Sf9 cells	Full Length
PAK6, Active	STE kinase	P06-10G	Human	GST	Sf9 cells	Full Length
PAK7, Active	STE kinase	P07-10G	Human	GST	Sf9 cells	Full Length
PASK, Active	CAMK kinase	P08-11G	Human	GST	Sf9 cells	981-end
PCTK1 (CDK16)/CyclinY, Active	CMGC kinase	P09-11G	Human	GST	Sf9 cells	PCTK1 (CDK16) (107-end) and Cyclin Y (2-end)
PCTK2 (CDK17)/CyclinY, Active	CMGC kinase	P10-10G	Human	GST	Sf9 cells	PCTK2 (CDK17) (Full Length) and Cyclin Y (2-end)

Product Name	Subcategory	Cat# No	Species	Tag	Expression System	Sequence
PCTK3 (CDK18)/CyclinY, Active	CMGC kinase	P11-10G	Human	GST	Sf9 cells	PCTK3 (CDK18)(Full Length) and Cyclin Y (2-end)
PDGFR alpha, Active	TK kinase	P12-11G	Mouse	GST	Sf9 cells	550-end
PDGFR alpha, Active	TK kinase	P12-18G	Human	GST	Sf9 cells	550-end
PDGFR beta, Active	TK kinase	P13-11G	Human	GST	Sf9 cells	557-end
PDHK1, Active	Atypical kinase	P57-10G	Human	GST	Sf9 cells	Full Length
PDHK2, Active	Atypical kinase	P58-10G	Human	GST	Sf9 cells	Full Length
PDHK3, Active	Atypical kinase	P59-10G	Human	GST	Sf9 cells	Full Length
PDHK4, Active	Atypical kinase	P60-10G	Human	GST	Sf9 cells	Full Length
PDK1, Active	AGC kinase	P14-10H	Human	HIS	Sf9 cells	Full Length
PFTK1 (CDK14)/CyclinY, Active	CMGC kinase	P15-10G	Human	GST	Sf9 cells	PFTK1 (CDK14) Full Length and Cyclin Y (2-end)
PHKG1, Active	CAMK kinase	P19-10G	Human	GST	Sf9 cells	Full Length
PHKG2, Active	CAMK kinase	P20-10G	Human	GST	Sf9 cells	Full Length
PIM1, Active	CAMK kinase	P35-10G	Human	GST	Sf9 cells	Full Length
PIM2, Active	CAMK kinase	P36-10G	Human	GST	Sf9 cells	Full Length
PIM3, Active	CAMK kinase	P37-10G	Mouse	GST	Sf9 cells	Full Length
PIM3, Active	CAMK kinase	P37-10BG	Human	GST	Sf9 cells	Full Length
PKAc alpha, Active	AGC kinase	P51-10G	Human	GST	Sf9 cells	Full Length
PKAc beta, Active	AGC kinase	P52-10G	Human	GST	Sf9 cells	Full Length
PKAc gamma, Active	AGC kinase	P53-10G	Human	GST	Sf9 cells	Full Length
PKC alpha, Active	AGC kinase	P61-10G	Xenopus	GST	Sf9 cells	Full Length
PKC alpha, Active	AGC kinase	P61-18G	Human	GST	Sf9 cells	Full Length
PKC beta I, Active	AGC kinase	P62-10G	Human	GST	Sf9 cells	Full Length
PKC beta II, Active	AGC kinase	P63-10G	Human	GST	Sf9 cells	Full Length
PKC delta, Active	AGC kinase	P64-10G	Human	GST	Sf9 cells	Full Length
PKC epsilon, Active	AGC kinase	P65-10G	Human	GST	Sf9 cells	Full Length
PKC eta, Active	AGC kinase	P67-10G	Human	GST	Sf9 cells	Full Length
PKC gamma, Active	AGC kinase	P66-10G	Human	GST	Sf9 cells	Full Length
PKC iota, Active	AGC kinase	P68-10G	Human	GST	Sf9 cells	Full Length
PKC mu, Active	CAMK kinase	P72-10G	Human	GST	Sf9 cells	Full Length
PKC nu, Active	CAMK kinase	P73-10G	Human	GST	Sf9 cells	Full Length
PKC theta, Active	AGC kinase	P74-10G	Human	GST	Sf9 cells	Full Length
PKC zeta, Active	AGC kinase	P75-10G	Human	GST	Sf9 cells	Full Length
PKD2 (PRKD2), Active	CAMK kinase	P76-10G	Human	GST	Sf9 cells	Full Length
PKN1/PRK1, Active	AGC kinase	P70-11G	Human	GST	Sf9 cells	289-end
PKN2/PRK2, Active	AGC kinase	P71-10G	Human	GST	Sf9 cells	Full Length
PKN3/PRK3, Active	AGC kinase	P69-10G	Human	GST	Sf9 cells	Full Length
PLK1, Active	Other kinase	P41-10H	Human	HIS	Sf9 cells	Full Length
PLK2, Active	Other kinase	P42-10G	Human	GST	Sf9 cells	Full Length

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Product Name	Subcategory	Cat# No	Species	Tag	Expression System	Sequence
PLK3, Active	Other kinase	P43-13G	Human	GST	Sf9 cells	57-340
PLK4, Active	Other kinase	P44-11G	Human	GST	Sf9 cells	1-836
PRKG1, Active	AGC kinase	P78-10BG	Human	GST	Sf9 cells	Full Length
PRKG1, Active	AGC kinase	P78-11G	Human	GST	Sf9 cells	324-end
PRKG2, Active	AGC kinase	P79-10G	Human	GST	Sf9 cells	Full Length
PRKX, Active	AGC kinase	P81-10G	Human	GST	Sf9 cells	Full Length
PYK2, Active	TK kinase	P92-11H	Human	HIS	Sf9 cells	360-690
QIK, Active	CAMK kinase	S15-10G	Human	GST	Sf9 cells	Full Length
RAF1 (EE), Active	TKL kinase	R01-13G	Human	GST	Sf9 cells	Y340E-Y341E, 306-end
RET, Active	TK kinase	R02-11G	Human	GST	Sf9 cells	658-end
RET, Active	TK kinase	R02-11H	Human	HIS	Sf9 cells	658-end
RIPK1, Active	TKL kinase	R07-10G	Human	GST	Sf9 cells	Full Length
RIPK1, Active	TKL kinase	R07-11G	Human	GST	Sf9 cells	1-327
RIPK1, Active	TKL kinase	R07M-11G	Mouse	GST	Sf9 cells	1-327
RIPK1, Active	TKL kinase	R07C-11G	Cyno-molgus Monkey	GST	Sf9 cells	1-326
RIPK2, Active	TKL kinase	R08-11G	Human	GST	Sf9 cells	1-299
RIPK3, Active	TKL kinase	R09-10G	Human	GST	Sf9 cells	Full Length
RIPK5, Active	TKL kinase	R27-10G	Human	GST	Sf9 cells	Full Length
ROCK1, Active	AGC kinase	R10-11G	Human	GST	Sf9 cells	17-535
ROCK2, Active	AGC kinase	R11-11G	Human	GST	Sf9 cells	5-554
ROCK2, Active	AGC kinase	R11-11H	Human	HIS	Sf9 cells	5-554
RON, Active	TK kinase	M58-11G	Human	GST	Sf9 cells	983-end
ROR1, Active	TK kinase	R12-11G	Human	GST	Sf9 cells	429-end
ROR2, Active	TK kinase	R13-11G	Human	GST	Sf9 cells	427-end
ROS1, Active	TK kinase	R14-11G	Human	GST	Sf9 cells	1883-end
ROS1, Active	TK kinase	R14-11BG	Human	GST	Sf9 cells	1881-end
RSK1, Active	AGC kinase	R15-10G	Human	GST	Sf9 cells	Full Length
RSK2, Active	AGC kinase	R17-10G	Human	GST	Sf9 cells	Full Length
RSK3, Active	AGC kinase	R16-10G	Human	GST	Sf9 cells	Full Length
RSK4, Active	AGC kinase	R20-10G	Human	GST	Sf9 cells	Full Length
SBK1, Active	Other kinase	S56-10G	Human	GST	Sf9 cells	Full Length
SGK1, Active	AGC kinase	S06-11G	Human	GST	Sf9 cells	60-end
SGK1, Active	AGC kinase	S06-10G	Human	GST	Sf9 cells	Full Length
SGK1, Active	AGC kinase	S06-11H	Human	HIS	Sf9 cells	60-end
SGK2, Active	AGC kinase	S07-10G	Human	GST	Sf9 cells	Full Length
SGK3, Active	AGC kinase	S08-10G	Human	GST	Sf9 cells	Full Length
SIK, Active	CAMK kinase	S14-11G	Human	GST	Sf9 cells	1-303
SIK, Active	CAMK kinase	S14-11BH	Human	HIS	Sf9 cells	1-303
SIK3, Active	CAMK kinase	S12-11G	Human	GST	Sf9 cells	1-307

Product Name	Subcategory	Cat# No	Species	Tag	Expression System	Sequence
SLK, Active	STE kinase	S11-10G	Human	GST	Sf9 cells	Full Length
SNRK, Active	CAMK kinase	S16-10G	Human	GST	Sf9 cells	Full Length
SOK1, Active	STE kinase	S43-10G	Human	GST	Sf9 cells	Full Length
SRC, Active	TK kinase	S19-10G	Rous Sarcoma Virus	GST	Sf9 cells	Full Length
SRC, Active	TK kinase	S19-18G	Human	GST	Sf9 cells	Full Length
SRMS, Active	TK kinase	S20-11G	Human	GST	Sf9 cells	215-end
SRPK1, Active	CMGC kinase	S21-10G	Human	GST	Sf9 cells	Full Length
SRPK2, Active	CMGC kinase	S22-10G	Human	GST	Sf9 cells	Full Length
STK19, Active	Atypical kinase	S35-10G	Human	GST	Sf9 cells	Full Length
STK21 (CIT), Active	AGC kinase	C52-11G	Human	GST	Sf9 cells	1-449
STK3, Active	STE kinase	S24-10G	Human	GST	Sf9 cells	Full Length
STK32B (YANK2), Active	AGC kinase	Y04-10G	Human	GST	Sf9 cells	Full Length
STK32C (YANK3), Active	AGC kinase	Y05-11G	Human	GST	Sf9 cells	66-end
STK33, Active	CAMK kinase	S46-10G	Human	GST	Sf9 cells	Full Length
STK36, Active	Other kinase	S48-11G	Human	GST	Sf9 cells	1-457
STK39 (STLK3), Active	STE kinase	S51-10H	Human	HIS	Sf9 cells	Full Length
SYK, Active	TK kinase	S52-10G	Human	GST	Sf9 cells	Full Length
TAK1-TAB1, Active	TKL kinase	M15-13G	Human	GST	Sf9 cells	TAK1 (1-303) and TAB1 (437-end)), linked by a small peptide (DFGGGGG)
TAOK1, Active	STE kinase	T24-11G	Human	GST	Sf9 cells	1-314
TAOK2, Active	STE kinase	T25-11G	Human	GST	Sf9 cells	1-314
TAOK3, Active	STE kinase	T26-11G	Human	GST	Sf9 cells	1-463
TBK1, Active	Other kinase	T02-10G	Human	GST	Sf9 cells	Full Length
TBK1, Active	Other kinase	T02M-10G	Mouse	GST	Sf9 cells	Full Length
TEC, Active	TK kinase	T03-10G	Human	GST	Sf9 cells	Full Length
TESK2, Active	TKL kinase	T06-10G	Human	GST	Sf9 cells	Full Length
TGFBR1 (ALK5), Active	TKL kinase	T07-11G	Human	GST	Sf9 cells	80-end
TGFBR1 (ALK5), Active	TKL kinase	T07-11BG	Mouse	GST	Sf9 cells	148-end
TGFBR2, Active	TKL kinase	T08-11G	Human	GST	Sf9 cells	190-end
TGFBR2, Active	TKL kinase	T08-11BG	Mouse	GST	Sf9 cells	215-end
TIE2, Active	TK kinase	T04-11G	Human	GST	Sf9 cells	771-end
TLK1, Active	Other kinase	T10-10G	Human	GST	Sf9 cells	Full Length
TLK2, Active	Other kinase	T11-11G	Human	GST	Sf9 cells	388-end
TNIK, Active	STE kinase	T27-11G	Human	GST	Sf9 cells	1-367
TNK1, Active	TK kinase	T12-11G	Human	GST	Sf9 cells	1-510
TNNI3K, Active	TKL kinase	T13-11G	Human	GST	Sf9 cells	300-end
TOPK, Active	Other kinase	T14-10G	Human	GST	Sf9 cells	Full Length
TRIO, Active	CAMK kinase	T16-11G	Human	GST	Sf9 cells	2627-end

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Product Name	Subcategory	Cat# No	Species	Tag	Expression System	Sequence
TRKA, Active	TK kinase	N16-11G	Human	GST	Sf9 cells	440-end
TRKB, Active	TK kinase	N17-11G	Human	GST	Sf9 cells	455-end
TRKC, Active	TK kinase	N18-11H	Human	HIS	Sf9 cells	507-end
TSSK1B, Active	CAMK kinase	S40-10BG	Human	GST	Sf9 cells	Full Length
TSSK2, Active	CAMK kinase	S38-10G	Human	GST	Sf9 cells	Full Length
TTBK1, Active	CK1 kinase	T17-11G	Human	GST	Sf9 cells	1-479
TTBK2, Active	CK1 kinase	T18-11G	Mouse	GST	Sf9 cells	70-538
TTK, Active	Other kinase	T20-10G	Human	GST	Sf9 cells	Full Length
TTK, Active	Other kinase	T20M-10G	Mouse	GST	Sf9 cells	Full length
TXK, Active	TK kinase	T19-11G	Human	GST	Sf9 cells	239-end
TYK2 (JTK1), Active	TK kinase	T21-11G	Human	GST	Sf9 cells	442-end
TYRO3, Active	TK kinase	T22-11G	Human	GST	Sf9 cells	455-end
ULK1, Active	Other kinase	U01-11G	Human	GST	Sf9 cells	1-649
ULK2, Active	Other kinase	U02-11G	Human	GST	Sf9 cells	1-478
ULK3, Active	Other kinase	U03-10H	Human	HIS	Sf9 cells	Full Length
VRK1, Active	CK1 kinase	V01-10G	Human	GST	Sf9 cells	Full Length
VRK2, Active	CK1 kinase	V02-11G	Human	GST	Sf9 cells	1-375
WEE1, Active	Other kinase	W01-11G	Human	GST	Sf9 cells	Full-length
WEE2, Active	Other kinase	W06-10G	Mouse	GST	Sf9 cells	Full length
WNK1, Active	Other kinase	W02-11G	Human	GST	Sf9 cells	181-507
WNK2, Active	Other kinase	W03-11G	Human	GST	Sf9 cells	1-489
WNK3, Active	Other kinase	W04-11G	Human	GST	Sf9 cells	1-571
WNK4, Active	Other kinase	W05-11G	Mouse	GST	Sf9 cells	1-441
YES1, Active	TK kinase	Y01-10G	Human	GST	Sf9 cells	Full Length
YSK4 (MAP3K19), Active	STE kinase	Y06-11G	Human	GST	Sf9 cells	941-end
ZAK, Active	TKL kinase	Z01-10G	Human	GST	Sf9 cells	Full Length
ZAP70, Active	TK kinase	Z02-10G	Human	GST	Sf9 cells	Full Length

Lipid Kinase

Lipid kinases phosphorylate lipids in the cells, both on the plasma membrane as well as the membrane of the organelles. The addition of phosphate groups can change the reactivity and localization of the lipid and can be used in signal transmission. Lipid kinases regulate a wide variety of cellular functions, including cell growth, proliferation, differentiation, mobility, intracellular trafficking, and survival. PI3K pathway is believed to be deregulated in a wide spectrum of human cancers (1). Kinases in this pathway such as PI3K alpha become a prime target for the development of anticancer drugs. Diacylglycerol (DG) kinase (DGK) modulates the balance between the two signalling lipids, DG and phosphatidic acid (PA), by phosphorylating DG to generate PA. Mammalian DGK consists of ten isozymes. DGKs has emerged as new drug targets for a variety of diseases (2, 3).

1. Yang J; Nie X; Ma X; Wei Y; Peng Y and Wei X. Targeting PI3K in cancer: mechanisms and advances in clinical trials. *Molecular Cancer* 2019, 18:26
2. Sakane F; Imai S.I; Kai M; Yasuda S and Kanoh H. Diacylglycerol kinases as emerging potential drug targets for a variety of diseases. *Curr. Drug Targets* 2008, 9(8):626-40
3. Sakane F; Hoshino F; Ebina M; Sakai H and Takahashi D. The role of diacylglycerol kinases in cancer cell proliferation and apoptosis. *Cancers* 2021, 13:5190

Product Name	Cat# No	Species	Tag	Expression System	Sequence
DGKA, Active	D21-10BG	Human	GST	Sf9 cells	Full Length
DGKA, Active	D21-10BH	Human	HIS	Sf9 cells	Full Length
DGKA, Active	D21-10CH	Rat	HIS	Sf9 cells	Full length
DGKA, Active	D21-10DH	Dog	HIS	Sf9 cells	Full length
DGKA, Active	D21-10EH	Monkey	HIS	Sf9 cells	Full length
DGKA, Active	D21-10CG	Mouse	GST	Sf9 cells	Full length
DGKB (11-E), Active	D22-11H	Human	HIS	Sf9 cells	11-end
DGKB, Active	D22-10G	Human	GST	Sf9 cells	Full Length
DGKB, Active	D22-10H	Human	HIS	Sf9 cells	Full length
DGKD, Active	D23-10G	Human	GST	Sf9 cells	Full length
DGKD, Active	D23-10H	Human	HIS	Sf9 cells	Full length
DGKE, Active	D24-10G	Human	GST	Sf9 cells	Full Length
DGKE, Active	D24-10H	Human	HIS	Sf9 cells	Full length
DGKG, Active	D25-10G	Human	GST	Sf9 cells	Full length
DGKG, Active	D25-10H	Human	HIS	Sf9 cells	Full length
DGKG, Active	D25-10BH	Human	HIS	Sf9 cells	Full length
DGKG, Active	D25-10BG	Human	GST	Sf9 cells	Full length
DGKG, Active	D25-11H	Human	HIS	Sf9 cells	10-end
DGKH Active	D26-10H	Human	HIS	Sf9 cells	Full length
DGKH, Active	D26-10G	Human	GST	Sf9 cells	Full length
DGKI, Active	D27-10G	Human	GST	Sf9 cells	Full length
DGKI, Active	D27-10H	Human	HIS	Sf9 cells	Full length
DGKK Active	D28-10H	Human	HIS	Sf9 cells	Full length
DGKK, Active	D28-10G	Human	GST	Sf9 cells	Full Length
DGKQ, Active	D29-10G	Human	GST	Sf9 cells	Full Length
DGKZ, Active	D30-10G	Human	GST	Sf9 cells	Full Length
DGKZ, Active	D30-10H	Human	HIS	Sf9 cells	Full length
DGKZ, Active	D30M-10H	Mouse	HIS	Sf9 cells	Full length
DGKZ, Active	D30A-10H	Rat	HIS	Sf9 cells	Full length

Product Name	Cat# No	Species	Tag	Expression System	Sequence
PI3K (p110 alpha/p55 gamma), Active	P27-10CG	Human	GST	Sf9 cells	Full Length
PI3K (p110 alpha/p55 gamma), Active	P27-102CH	Human	HIS	Sf9 cells	Full Length
PI3K (p110 alpha/p85 alpha), Active	P27-102G	Human	GST	Sf9 cells	Full Length
PI3K (p110 alpha/p85 alpha), Active	P27-102H	Human	HIS	Sf9 cells	Full Length
PI3K (p110 alpha/p85 alpha), Active	P27-182H	Mouse	HIS	Sf9 cells	Full Length
PI3K (p110 beta/p85 alpha), Active	P28-102H	Human	HIS	Sf9 cells	Full Length
PI3K (p110 beta/p85 beta), Active	P28-102BH	Human	HIS	Sf9 cells	Full Length
PI3K (p110 delta/p85 alpha), Active	P30-102H	Human	HIS	Sf9 cells	Full Length
PI3K (p120 gamma), Active	P29-102H	Human	HIS	Sf9 cells	Full Length
PI4K2A, Active	P21-102G	Human	GST	Sf9 cells	Full Length
PI4K2B, Active	P22-102G	Human	GST	Sf9 cells	Full Length
PI4KA, Active	P31-102G	Human	GST	Sf9 cells	Full Length
PI4KB, Active	P32-102G	Human	GST	Sf9 cells	Full Length
PIK3C2A, Active	P23-112G	Human	GST	Sf9 cells	299-end
PIK3C2B, Active	P24-112BG	Human	GST	Sf9 cells	850-end
PIK3C2G, Active	P25-112G	Human	GST	Sf9 cells	468-1203
PIK3C3 (Vps34), Active	P26-102G	Human	GST	Sf9 cells	Full Length
PIP4K2A, Active	P76-102AG	Human	GST	Sf9 cells	Full Length
PIP4K2B, Active	P76-102BG	Human	GST	Sf9 cells	Full Length
PIP4K2C, Active	P76-102CG	Human	GST	Sf9 cells	Full Length
PIP5K1A, Active	P16-102AG	Human	GST	Sf9 cells	Full Length
PIP5K1B, Active	P16-102BG	Human	GST	Sf9 cells	Full Length
PIP5K1C, Active	P16-102CG	Human	GST	Sf9 cells	Full Length
PIP5K3 (PIKFYVE), Active	P17-112BG	Human	GST	Sf9 cells	1400-end
SPHK1, Active	S17-102G	Human	GST	Sf9 cells	Full Length
SPHK2, Active	S18-102G	Human	GST	Sf9 cells	Full Length

Carbohydrate Kinases

Carbohydrate kinases activate a wide variety of monosaccharides by adding a phosphate group (usually ATP) to a free sugar hydroxyl. This modification is fundamental to saccharide utilization and to maintain cellular function. Defects in carbohydrate phosphorylation have been associated with several diseases such as autosomal galactokinase deficiency (1). Carbohydrate kinases, for example galactokinase, are attractive targets for drug development and therapeutics (2)

1. Hennermann, J.B.; Schadewaldt, P.; Vetter, B.; Shin, Y.S.; Monch, E.; Klein, J. Features and outcome of galactokinase deficiency in children diagnosed by newborn screening. *J. Inherit. Metab. Dis.* 2011, 34, 399–407
2. Tang, M.; Wierenga, K.; Elsas, L.J.; Lai, K. Molecular and biochemical characterization of human galactokinase and its small molecule inhibitors. *Chem. Biol. Interact.* 2010, 188, 376–385.

Product Name	Cat# No	Species	Tag	Expression System	Sequence
PFKFB1, Active	P321-10G	Human	GST	Sf9 cells	Full length
PFKFB2 Protein	P322-30G	Human	GST	Sf9 cells	Full Length
PFKFB3, Active	P323-10G	Human	GST	Sf9 cells	Full length
PFKFB4, Active	P324-11G	Human	GST	Sf9 cells	Full length
Uridylate Kinase	UK05-E311H	E.Coli	HIS	E.coli	Full-length

Mutant Kinases

Members of the kinase superfamily are key regulators of pivotal cell signaling pathways. Genetic alterations in protein kinases compromise their biological functions resulting in deregulated cellular pathways such as apoptosis, cell cycle regulation, proliferation, angiogenesis, differentiation, cellular metabolism. Mutations in kinase-encoding genes have been observed in many pathological conditions, ranging from cancer, inflammatory disorders, cardiovascular diseases to neurodegeneration (1). Furthermore, mutations of certain kinases have been linked to acquired drug resistance. As a result, mutant kinases quickly established themselves as important drug targets and have been the focus of drug discovery and development efforts (2). In an effort to support the advancement of next generation of kinase-targeted therapeutic programs, SignalChem has developed and manufactured over 350 clinically relevant active kinase mutants, representing the most comprehensive list of this class of proteins in the industry.

1. Kumar R et al., CancerDR: cancer drug resistance database. *Sci Rep.* 2013;3:1445. doi: 10.1038/srep01445.
2. Torkamani, A., Verkhivker, G., & Schork, N. J. (2009). Cancer driver mutations in protein kinase genes. *Cancer Letters*, 281(2), 117–127. <http://doi.org/10.1016/j.canlet.2008.11.008>

Product Name	Cat# No	Species	Tag	Expression System	Sequence
ABL1 (E255K), Active	A03-12BG	Human	GST	Sf9 cells	27-end (E255K)
ABL1 (E255V), Active	A03-12HH	Human	HIS	Sf9 cells	27-end (E255V)
ABL1 (F317I), Active	A03-12JG	Human	GST	Sf9 cells	27-end (F317I)
ABL1 (F317L), Active	A03-12IG	Human	GST	Sf9 cells	27-end (F317L)
ABL1 (H396P), Active	A03-12LG	Human	GST	Sf9 cells	27-end (H396P)
ABL1 (M351T), Active	A03-12KG	Human	GST	Sf9 cells	27-end (M351T)
ABL1 (Q252H), Active	A03-12FG	Human	GST	Sf9 cells	27-end (Q252H)
ABL1 (T315I), Active	A03-12DG	Human	GST	Sf9 cells	27-end (T315I)
ABL1 (V299L), Active	A03-12MG	Human	GST	Sf9 cells	27-end (V299L)
ABL1 (Y253F), Active	A03-12EG	Human	GST	Sf9 cells	27-end (Y253F)
ABL1 (Y253H), Active	A03-12GH	Human	HIS	Sf9 cells	27-end (Y253H)

Product Name	Cat# No	Species	Tag	Expression System	Sequence
AKT1 (E17K), Active	A16-12G	Human	GST	Sf9 cells	Full Length (E17K)
AKT2 (E17K), Active	A17-12G	Human	GST	Sf9 cells	Full Length (E17K)
AKT2 (R274H), Active	A17-12BG	Human	GST	Sf9 cells	Full Length (R274H)
AKT3 (E17K), Active	A18-12G	Human	GST	Sf9 cells	Full Length (E17K)
AKT3 (G171R), Active	A18-12BG	Human	GST	Sf9 cells	Full Length (G171R)
ALK (C1156Y), Active	A19-12DG	Human	GST	Sf9 cells	1060-end (C1156Y)
ALK (F1174L), Active	A19-12EG	Human	GST	Sf9 cells	1060-end (F1174L)
ALK (F1174S), Active	A19-12FG	Human	GST	Sf9 cells	1060-end (F1174S)
ALK (G1202R), Active	A19-12HG	Human	GST	Sf9 cells	1060-end (G1202R)
ALK (G1269A), Active	A19-12JG	Human	GST	Sf9 cells	1060-end (G1269A)
ALK (G1269S), Active	A19-12KG	Human	GST	Sf9 cells	1060-end (G1269S)
ALK (L1152R), Active	A19-12CG	Human	GST	Sf9 cells	1060-end (L1152R)
ALK (L1196M G1202R), Active	A19-12NG	Human	GST	Sf9 cells	1060-end (L1196M G1202R)
ALK (L1196M), Active	A19-12GG	Human	GST	Sf9 cells	1060-end (L1196M)
ALK (R1275Q), Active	A19-12LG	Human	GST	Sf9 cells	1060-end (R1275Q)
ALK (S1206R), Active	A19-12IG	Human	GST	Sf9 cells	1060-end (S1206R)
ALK (T1151M), Active	A19-12BG	Human	GST	Sf9 cells	1060-end (T1151M)
ALK (T1151_L1152insT), Active	A19-12G	Human	GST	Sf9 cells	1060-end (T1151_L1152insT)
ALK2 (G328E), Active	A06-12GG	Human	GST	Sf9 cells	147-end (G328E)
ALK2 (G328V), Active	A06-12HG	Human	GST	Sf9 cells	147-end (G328V)
ALK2 (G328W), Active	A06-12IG	Human	GST	Sf9 cells	147-end (G328W)
ALK2 (G356D), Active	A06-12JG	Human	GST	Sf9 cells	147-end (G356D)
ALK2 (PF197_198L), Active	A06-12FG	Human	GST	Sf9 cells	147-end (PF197_198L)
ALK2 (Q207D), Active	A06-13CG	Human	GST	Sf9 cells	147-end (Q207D)
ALK2 (Q207E), Active	A06-13DG	Human	GST	Sf9 cells	147-end (Q207E)
ALK2 (R202I), Active	A06-12EG	Human	GST	Sf9 cells	147-end ((R202I)
ALK2 (R206H), Active	A06-12BG	Human	GST	Sf9 cells	147-end (R206H)
ALK2 (R258G), Active	A06-12KG	Human	GST	Sf9 cells	147-end (R258G)
ALK3 (Q233D), Active	B04-12BG	Human	GST	Sf9 cells	187-end (Q233D)
ALK3 (R486Q), Active	B04-12CG	Human	GST	Sf9 cells	187-end (R486Q)
ANXA4-PKN1(Aex2Pex13), Active	P70-19G	Human	GST	Sf9 cells	1-3a.a., exons1-2 (ANXA4) - 578a.a.-end, exons13-22 (PKN1)
AURORA B (G160L), Active	A31-10BG	Human	GST	Sf9 cells	Full Length (G160L)
AXL (R499C), Active	A34-12BG	Human	GST	Sf9 cells	473-end (R499C)
BCR-RET, Active	R02-19EG	Human	GST	Sf9 cells	1-426 (BCR) - 713-end (RET)
BRAF (d485-489 P490Y), Active	B08-12IG	Human	GST	Sf9 cells	381-end or exon 9-18 (d485-489 P490Y)
BRAF (D594G) Protein	B08-12MG	Human	GST	Sf9 cells	381-end (D594G)
BRAF (G464V), Active	B08-12JG	Human	GST	Sf9 cells	381-end or exon 9-18 (G464V)
BRAF (G469A), Active	B08-12FG	Human	GST	Sf9 cells	381-end or exon 9-18 (G469A)

Product Name	Cat# No	Species	Tag	Expression System	Sequence
BRAF (K601E), Active	B08-12BG	Human	GST	Sf9 cells	416-end (K601E)
BRAF (L597V), Active	B08-12HG	Human	GST	Sf9 cells	381-end or exon 9-18 (L597V)
BRAF (R506_K507insVLR), Active	B08-13CG	Human	GST	Sf9 cells	381-end or exon 9-18 (R506_K507insVLR)
BRAF (T599_V600insT), Active	B08-13BG	Human	GST	Sf9 cells	416-end (T599_V600insT)
BRAF (V600A), Active	B08-12EG	Human	GST	Sf9 cells	381-end or exon 9-18 (V600A)
BRAF (V600D), Active	B08-12CG	Human	GST	Sf9 cells	381-end or exon 9-18 (V600D)
BRAF (V600E), Active	B08-12G	Human	GST	Sf9 cells	416-end (V600E)
BRAF (V600K), Active	B08-12DG	Human	GST	Sf9 cells	381-end or exon 9-18 (V600K)
BTK (C481F), Active	B10-12FH	Human	HIS	Sf9 cells	Full-length (C481F)
BTK (C481R), Active	B10-12GH	Human	HIS	Sf9 cells	Full-length (C481R)
BTK (C481S), Active	B10-12CH	Human	HIS	Sf9 cells	Full Length (C481S)
BTK (P190K), Active	B10-12BH	Human	HIS	Sf9 cells	Full Length (P190K)
BTK (T474I), Active	B10-12HH	Human	HIS	Sf9 cells	Full length (T474I)
BTK (Y485F), Active	B10-12IH	Human	HIS	Sf9 cells	Full length (Y485F)
c-KIT (A829P), Active	C06-12HG	Human	GST	Sf9 cells	544-end (A829P)
c-KIT (d557-558), Active	K06-12WG	Human	GST	Sf9 cells	544-end (d557-558)
c-KIT (D816E), Active	C06-12IG	Human	GST	Sf9 cells	544-end (D816E)
c-KIT (D816F), Active	C06-12JG	Human	GST	Sf9 cells	544-end (D816F)
c-KIT (D816H), Active	C06-12KG	Human	GST	Sf9 cells	544-end (D816H)
c-KIT (D816I), Active	K06-12XG	Human	GST	Sf9 cells	544-end (D816I)
c-KIT (D816V), Active	C06-12LG	Human	GST	Sf9 cells	544-end (D816V)
c-KIT (D816Y), Active	C06-12MG	Human	GST	Sf9 cells	544-end (D816Y)
c-KIT (D820E), Active	K06-12BG	Human	GST	Sf9 cells	544-end (D820E)
c-KIT (D820Y), Active	K06-12CG	Human	GST	Sf9 cells	544-end (D820Y)
c-KIT (K642E), Active	C06-12NG	Human	GST	Sf9 cells	544-end (K642E)
c-KIT (L576P), Active	K06-12UG	Human	GST	Sf9 cells	544-end (L576P)
c-KIT (N822K), Active	K06-12DG	Human	GST	Sf9 cells	544-end (N822K)
c-KIT (T670E), Active	K06-12EG	Human	GST	Sf9 cells	544-end (T670E)
c-KIT (T670I), Active	C06-12FG	Human	GST	Sf9 cells	544-end (T670I)
c-KIT (V559A), Active	C06-12OG	Human	GST	Sf9 cells	544-end (V559A)
c-KIT (V559D T670I), Active	K06-12QG	Human	GST	Sf9 cells	544-end (V559D T670I)
c-KIT (V559D V654A), Active	K06-12RG	Human	GST	Sf9 cells	544-end (V559D V654A)
c-KIT (V559D), Active	C06-12PG	Human	GST	Sf9 cells	544-end (V559D)
c-KIT (V560G D816V), Active	C06-12TG	Human	GST	Sf9 cells	544-end (V560G D816V)
c-KIT (V560G N822K), Active	K06-12VG	Human	GST	Sf9 cells	544-end (V560G N822K)
c-KIT (V560G), Active	C06-12SG	Human	GST	Sf9 cells	544-end (V560G)
c-KIT (V654A), Active	K06-13G	Human	GST	Sf9 cells	544-end (V654A)
c-KIT (Y823D), Active	K06-12GG	Human	GST	Sf9 cells	544-end (Y823D)
c-MER (A708S), Active	M51-12BG	Human	GST	Sf9 cells	578-872 (A708S)
CK1 epsilon (R178C), Active	C66-12BG	Human	GST	Sf9 cells	Full Length (R178C)

Product Name	Cat# No	Species	Tag	Expression System	Sequence
CK1A1 (E42C), Active	C64-12CG	Human	GST	Sf9 cells	Full Length (E42C)
CK1A1 (I35C), Active	C64-12BG	Human	GST	Sf9 cells	Full length (I35C)
DDR1 (S496A), Active	D05-12G	Human	GST	Sf9 cells	444-end (S496A)
DDR2 (T654M), Active	D06-12G	Human	GST	Sf9 cells	467-end (T654M)
DNAJB1-PRKACA, Active	P51-19BG	Human	GST	Sf9 cells	2-70 (DNAJB1) - 16-351 (PRKACA)
EGFR (A763_Y764insFHEA), Active	E10-132BG	Human	GST	Sf9 cells	668-end (A763_Y764insFHEA)
EGFR (A763_Y764insFQEA), Active	E10-132UG	Human	GST	Sf9 cells	668-end (A763_Y764insFQEA)
EGFR (A767-S768insTLA), Active	E10-132CG	Human	GST	Sf9 cells	668-end (A767-S768insTLA)
EGFR (C775S T790M L858R), Active	E10-122D2G	Human	GST	Sf9 cells	668-end (C775S T790M L858R)
EGFR (C797G L858R), Active	E10-122LG	Human	GST	Sf9 cells	668-end (C797G L858R)
EGFR (C797S L858R), Active	E10-122ZG	Human	GST	Sf9 cells	668-end (C797S L858R)
EGFR (C797S), Active	E10-122SG	Human	GST	Sf9 cells	668-end (C797S)
EGFR (d746), Active	E10-12IG	Human	GST	Sf9 cells	695-end (d746)
EGFR (d746-750 C775S T790M L858R), Active	E10-122E2G	Human	GST	Sf9 cells	668-end (d746-750 C775S T790M L858R)
EGFR (d746-750 C797A), Active	E10-122C2G	Human	GST	Sf9 cells	668-end (d746-750 C797A)
EGFR (d746-750 C797G), Active	E10-122NG	Human	GST	Sf9 cells	668-end (d746-750 C797G)
EGFR (d746-750 C797S), Active	E10-122TG	Human	GST	Sf9 cells	668-end (d746-750 C797S)
EGFR (D746-750 G724S), Active	E10-122D3G	Human	GST	Sf9 cells	668-end (D746-750 G724S)
EGFR (d746-750 L718Q T790M), Active	E10-122E3G	Human	GST	Sf9 cells	668-end (d746-750 L718Q T790M)
EGFR (d746-750 S768I), Active	E10-122B3G	Human	GST	Sf9 cells	668-end (d746-750 S768I)
EGFR (d746-750 T790M C797S L858R), Active	E10-122YG	Human	GST	Sf9 cells	668-end (d746-750 T790M C797S L858R)
EGFR (d746-750 T790M C797S), Active	E10-122UG	Human	GST	Sf9 cells	668-end (d746-750 T790M C797S)
EGFR (d746-750 T790M L792F), Active	E10-122G3G	Human	GST	Sf9 cells	668-end (d746-750 T790M L792F)
EGFR (d746-750 T790M L792H), Active	E10-122F3G	Human	GST	Sf9 cells	668-end (d746-750 T790M L792H)
EGFR (d746-750 T790M L798I), Active	E10-122WG	Human	GST	Sf9 cells	668-end (d746-750 T790M L798I)
EGFR (d746-750 T790M L858R), Active	E10-122XG	Human	GST	Sf9 cells	668-end (d746-750 T790M L858R)
EGFR (d746-750 T790M), Active	E10-122KG	Human	GST	Sf9 cells	668-end (d746-750 T790M)
EGFR (d746-750), Active	E10-122JG	Human	GST	Sf9 cells	668-end (d746-750)
EGFR (d747-749 A750P), Active	E10-12MG	Human	GST	Sf9 cells	695-end (d747-749 A750P)
EGFR (d747-749), Active	E10-12LG	Human	GST	Sf9 cells	695-end (d747-749)
EGFR (d747-752 P753S), Active	E10-12NG	Human	GST	Sf9 cells	695-end (d747-752 P753S)
EGFR (d752-759), Active	E10-12OG	Human	GST	Sf9 cells	695-end (d752-759)
EGFR (D761Y), Active	E10-12QG	Human	GST	Sf9 cells	695-end (D761Y)
EGFR (D761Y), Active	E10-122QG	Human	GST	Sf9 cells	668-end (D761Y)
EGFR (D770GY), Active	E10-13KG	Human	GST	Sf9 cells	695-end (D770GY)

Product Name	Cat# No	Species	Tag	Expression System	Sequence
EGFR (D770GY), Active	E10-132KG	Human	GST	Sf9 cells	668-end (D770GY)
EGFR (D770_N771insGF) Protein	E10-13IG	Human	GST	Sf9 cells	695-end (D770_N771insGF)
EGFR (D770_N771insNPG T790M), Active	E10-132TG	Human	GST	Sf9 cells	668-end (D770_N771insNPG T790M)
EGFR (D770_N771insNPG), Active	E10-132GG	Human	GST	Sf9 cells	668-end (D770_N771insNPG)
EGFR (D770_N771insY), Active	E10-122D4G	Human	GST	Sf9 cells	669-end (D770_N771insY)
EGFR (G719C), Active	E10-12FG	Human	GST	Sf9 cells	695-end (G719C)
EGFR (G719D), Active	E10-12GG	Human	GST	Sf9 cells	695-end (G719D)
EGFR (G719S), Active	E10-12HG	Human	GST	Sf9 cells	695-end (G719S)
EGFR (H773_V774insAH) Protein	E10-13PG	Human	GST	Sf9 cells	695-end (H773_V774insAH)
EGFR (H773_V774insH) Protein	E10-13RG	Human	GST	Sf9 cells	695-end (H773_V774insH)
EGFR (K716A C797S L858R), Active	E10-122S2G	Human	GST	Sf9 cells	668-end (K716A C797S L858R)
EGFR (K716A T790M C797S L858R), Active	E10-122P2G	Human	GST	Sf9 cells	668-end (K716A T790M C797S L858R)
EGFR (K716A), Active	E10-122M2G	Human	GST	Sf9 cells	668-end (K716A)
EGFR (K716Q L718Q), Active	E10-122T2G	Human	GST	Sf9 cells	668-end (K716Q L718Q)
EGFR (K728A T790M C797S L858R), Active	E10-122Q2G	Human	GST	Sf9 cells	668-end (K728A T790M C797S L858R)
EGFR (K728A), Active	E10-122N2G	Human	GST	Sf9 cells	668-end (K728A)
EGFR (L718Q C797S L858R), Active	E10-122A3G	Human	GST	Sf9 cells	668-end (L718Q C797S L858R)
EGFR (L718Q L858R), Active	E10-122C3G	Human	GST	Sf9 cells	668-end (L718Q L858R)
EGFR (L718Q T790M L858R), Active	E10-122H2G	Human	GST	Sf9 cells	668-end (L718Q T790M L858R)
EGFR (L718Q), Active	E10-122G2G	Human	GST	Sf9 cells	668-end (L718Q)
EGFR (L747S), Active	E10-12PG	Human	GST	Sf9 cells	695-end (L747S)
EGFR (L747S), Active	E10-122Y2G	Human	GST	Sf9 cells	668-end (L747S)
EGFR (L792F L858R), Active	E10-122U2G	Human	GST	Sf9 cells	668-end (L792F L858R)
EGFR (L792F), Active	E10-122I2G	Human	GST	Sf9 cells	668-end (L792F)
EGFR (L792H C797S L858R), Active	E10-122V2G	Human	GST	Sf9 cells	668-end (L792H C797S L858R)
EGFR (L792H L858R), Active	E10-122MG	Human	GST	Sf9 cells	668-end (L792H L858R)
EGFR (L792H), Active	E10-122J2G	Human	GST	Sf9 cells	668-end (L792H)
EGFR (L858R), Active	E10-122BG	Human	GST	Sf9 cells	668-end (L858R)
EGFR (L861Q), Active	E10-12CG	Human	GST	Sf9 cells	695-end (L861Q)
EGFR (N771-P772insH), Active	E10-132WG	Human	GST	Sf9 cells	668-end (N771-P772insH)
EGFR (P772_H773insNPH), Active	E10-13MG	Human	GST	Sf9 cells	695-end (P772_H773insNPH)
EGFR (R999A), Active	E10-122O2G	Human	GST	Sf9 cells	668-end (R999A)
EGFR (T790M C797G L858R), Active	E10-122OG	Human	GST	Sf9 cells	668-end (T790M C797G L858R)
EGFR (T790M C797S L858R R999A), Active	E10-122R2G	Human	GST	Sf9 cells	668-end (T790M C797S L858R R999A)
EGFR (T790M C797S L858R), Active	E10-122VG	Human	GST	Sf9 cells	668-end (T790M C797S L858R)

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Product Name	Cat# No	Species	Tag	Expression System	Sequence
EGFR (T790M C797S), Active	E10-122B2G	Human	GST	Sf9 cells	668-end (T790M C797S)
EGFR (T790M L792F C797S L858R), Active	E10-122W2G	Human	GST	Sf9 cells	668-end (T790M L792F C797S L858R)
EGFR (T790M L792F L858R), Active	E10-122K2G	Human	GST	Sf9 cells	668-end (T790M L792F L858R)
EGFR (T790M L792H C797S L858R), Active	E10-122X2G	Human	GST	Sf9 cells	668-end (T790M L792H C797S L858R)
EGFR (T790M L792H L858R), Active	E10-122L2G	Human	GST	Sf9 cells	668-end (T790M L792H L858R)
EGFR (T790M L858R), Active	E10-122DG	Human	GST	Sf9 cells	668-end (T790M L858R)
EGFR (T790M), Active	E10-122EG	Human	GST	Sf9 cells	668-end (T790M)
EGFR (V769-D770insGE), Active	E10-132VG	Human	GST	Sf9 cells	668-end (V769-D770insGE)
EGFR Mutant (C797A), Active	E10-12RG	Human	GST	Sf9 cells	695-end (C797A)
EML4-ALK (Eex13Aex20), Active	A19-19G	Human	GST	Sf9 cells	1-496 (EML4) - 1058-end (ALK)
EML4-ALK (Eex14Aex20), Active	A19-19GG	Human	GST	Sf9 cells	EML4 (1-534) - ALK (1058-end)
EML4-ALK (Eex20Aex20), Active	A19-19HG	Human	GST	Sf9 cells	EML4 (1-580) - ALK (1058-end)
EML4-ALK (Eex6Aex20), Active	A19-19FG	Human	GST	Sf9 cells	EML4 (1-222) - ALK (1058-end)
ERN1 (R727A R728A), Active	E31-12DG	Human	GST	Sf9 cells	468-end (R727A R728A)
ERN1 (R727A), Active	E31-12BG	Human	GST	Sf9 cells	468-end (R727A)
ERN1 (R728A), Active	E31-12CG	Human	GST	Sf9 cells	468-end (R728A)
FAM131B-BRAF (Fex2Bex9), Active	B08-19EG	Human	GST	Sf9 cells	1-30 exon 2 (FAB131B) - 381-end or exon 9-18 (BRAF)
FGFR1 (V561M), Active	F04-13G	Human	GST	Sf9 cells	399-822 (V561M)
FGFR1 (W666R), Active	F04-12G	Human	GST	Sf9 cells	399-end (W666R)
FGFR1OP-FGFR1, Active	F04-19BG	Human	GST	Sf9 cells	1-173 (FGFR1OP) 429-end (FGFR1)
FGFR2 (C491A), Active	F05-12HG	Human	GST	Sf9 cells	285-end (C491A)
FGFR2 (C491F), Active	F05-12IG	Human	GST	Sf9 cells	285-end (C491F)
FGFR2 (C491S), Active	F05-12JG	Human	GST	Sf9 cells	285-end (C491S)
FGFR2 (E565G), Active	F05-12CG	Human	GST	Sf9 cells	285-end (E565G)
FGFR2 (K526E), Active	F05-12BG	Human	GST	Sf9 cells	285-end (K526E)
FGFR2 (K641R), Active	F05-12DG	Human	GST	Sf9 cells	285-end (K641R)
FGFR2 (K659N), Active	F05-12EG	Human	GST	Sf9 cells	285-end (K659N)
FGFR2 (N549H), Active	F05-12G	Human	GST	Sf9 cells	285-end (N549H)
FGFR2 (R612T), Active	F05-12GG	Human	GST	Sf9 cells	285-end (R612T)
FGFR2 (V564F), Active	F05-12FG	Human	GST	Sf9 cells	285-end (V564F)
FGFR3 (G697C), Active	F06-12FG	Human	GST	Sf9 cells	397-end (G697C)
FGFR3 (K650E), Active	F06-12CG	Human	GST	Sf9 cells	397-end (K650E)
FGFR3 (K650M), Active	F06-12DG	Human	GST	Sf9 cells	397-end (K650M)
FGFR3 (K650Q), Active	F06-12EG	Human	GST	Sf9 cells	397-end (K650Q)
FGFR3 (V555M), Active	F06-12GG	Human	GST	Sf9 cells	397-end (V555M)

Product Name	Cat# No	Species	Tag	Expression System	Sequence
FGFR4 (N535K), Active	F07-12G	Human	GST	Sf9 cells	460-end (N535K)
FGFR4 (V550E), Active	F07-12BG	Human	GST	Sf9 cells	460-end (V550E)
FGFR4 (V550L), Active	F07-12CG	Human	GST	Sf9 cells	460-end (V550L)
FGFR4 (V550M), Active	F07-12DG	Human	GST	Sf9 cells	460-end (V550M)
FIP1L1-PDGFR alpha, Active	P12-19BG	Human	GST	Sf9 cells	1-265 (FIP1L1)
FLT3 (D835Y), Active	F12-12BG	Human	GST	Sf9 cells	571-993 (D835Y)
FLT3 (F594_R595insR), Active	F12-12EG	Human	GST	Sf9 cells	571-993 (F594_R595insR)
FLT3 (F594_R595insREY), Active	F12-12FG	Human	GST	Sf9 cells	571-993 (F594_R595insREY)
FLT3 (N676K), Active	F12-12IG	Human	GST	Sf9 cells	571-993 (N676K)
FLT3 (R595_E596insEY), Active	F12-12GG	Human	GST	Sf9 cells	571-993 (R595_E596insEY)
FLT3 (Y591-V592insVDFREY-EYD), Active	F12-12HG	Human	GST	Sf9 cells	571-993 (Y591-V592insVD-FREYEYD)
FLT3-ITD-NPOS, Active	F12-12DG	Human	GST	Sf9 cells	571-993 (FLT3-ITD-NPOS)
FLT3-ITD-W51, Active	F12-12CG	Human	GST	Sf9 cells	571-993 (FLT3-ITD-W51)
GOPC-ROS1, Active	R14-19BG	Human	GST	Sf9 cells	1-419 (GOPC) - 1881-end (ROS1)
HER2 (A775_G776insYVMA), Active	E27-13BG	Human	GST	Sf9 cells	676-end (A775_G776insYV-MA)
HER2 (d755-759), Active	E27-12BG	Human	GST	Sf9 cells	676-end (d755-759)
HER2 (D769H), Active	E27-12GG	Human	GST	Sf9 cells	676-end (D769H)
HER2 (D769Y), Active	E27-12HG	Human	GST	Sf9 cells	676-end (D769Y)
HER2 (G776VC), Active	E27-13EG	Human	GST	Sf9 cells	676-end (G776VC)
HER2 (I767M), Active	E27-12NG	Human	GST	Sf9 cells	676-end (I767M)
HER2 (L755S), Active	E27-12EG	Human	GST	Sf9 cells	676-end (L755S)
HER2 (L755W), Active	E27-12FG	Human	GST	Sf9 cells	676-end (L755W)
HER2 (L785F), Active	E27-12LG	Human	GST	Sf9 cells	676-end (L785F)
HER2 (P780_Y781insGSP), Active	E27-13DG	Human	GST	Sf9 cells	676-end (P780_Y781insGSP)
HER2 (R896C), Active	E27-12KG	Human	GST	Sf9 cells	676-end (R896C)
HER2 (T798I), Active	E27-12MG	Human	GST	Sf9 cells	676-end (T798I)
HER2 (V777L), Active	E27-12IG	Human	GST	Sf9 cells	676-end (V777L)
HER2 (V777_G778insCG), Active	E27-13CG	Human	GST	Sf9 cells	676-end (V777_G778insCG)
HER2 (V842I), Active	E27-12JG	Human	GST	Sf9 cells	676-end (V842I)
HER4 (R927Q), Active	E29-12G	Human	GST	Sf9 cells	682-993 (R927Q)
InsR (R1201Q), Active	I08-122G	Human	GST	Sf9 cells	980-1382 (R1201Q)
JAK1 (R724H), Active	J01-12BG	Human	GST	Sf9 cells	438-end (R724H)
KDR (R1032Q) Protein	K01-12G	Human	GST	Sf9 cells	789-end (R1032Q)
KIAA1549-BRAF (Kex15Bex9), Active	B08-19CG	Human	GST	Sf9 cells	1320-1643 ex-on15(KIAA1549) - 381-end or exon9-18 (BRAF)
KIAA1549-BRAF (Kex16Bex9), Active	B08-19BG	Human	GST	Sf9 cells	1320-1749 exon16 (KIAA1549) - 381-end or exon9-18 (BRAF)
KIF5B-ALK (Kex24Aex20), Active	A19-19MG	Human	GST	Sf9 cells	1-921a.a., exons1-24 (KIF5B) - 1058a.a.-end, exons20-29 (ALK)

Product Name	Cat# No	Species	Tag	Expression System	Sequence
KIF5B-MET (Kex24Mex14), Active	M52-19BG	Human	GST	Sf9 cells	1-921 a.a., exons 1-24 (KIF5B) 963 a.a. - end, exons 14-21 (MET)
KIF5B-RET (Kex15Rex14), Active	R02-19FG	Human	GST	Sf9 cells	1- 575 a.a., exons1-15 (KIF5B) - 713 a.a. - end, exons 14-21 (RET)
KIF5B-RET (V804L), Active	R02-19HG	Human	GST	Sf9 cells	1- 575 a.a., exons1-15 (KIF5B) - 713 a.a. - end, exons 14-21 (RET (V804L))
KIF5B-RET (V804M), Active	R02-19GG	Human	GST	Sf9 cells	1- 575 a.a., exons1-15 (KIF5B) - 713 a.a. - end, exons 14-21 (RET (V804M))
KLC1-ALK (Kex8Aex20), Active	A19-19IG	Human	GST	Sf9 cells	1-420a.a., exons1-8 (KLC1)- 1058a.a.-end, exons20-29 (ALK)
KSR1 (A635F), Active	K07-12G	Human	GST	Sf9 cells	431-end (A635F)
KSR1 (A635F), Active	K07-122G	Human	GST	Sf9 cells	335-end (A635F)
KSR1 (L639F), Active	K07-12BG	Human	GST	Sf9 cells	431-end (L639F)
KSR1 (L639F), Active	K07-122BG	Human	GST	Sf9 cells	335-end (L639F)
KSR2 (R676S), Active	K08-12BG	Human	GST	Sf9 cells	554-end (R676S)
LRRK2 (D1994A), Active	L10-12FG	Human	GST	Sf9 cells	968-end (D1994A)
LRRK2 (G2019S), Active	L10-12GG	Human	GST	Sf9 cells	968-end (G2019S)
LRRK2 (G2385R), Active	L10-12IG	Human	GST	Sf9 cells	968-end (G2385R)
LRRK2 (I2020T), Active	L10-12HG	Human	GST	Sf9 cells	968-end (I2020T)
LRRK2 (R1441C), Active	L10-12G	Human	GST	Sf9 cells	968-end (R1441C)
LRRK2 (R1441G), Active	L10-12BG	Human	GST	Sf9 cells	968-end (R1441G)
LRRK2 (R1441H), Active	L10-12CG	Human	GST	Sf9 cells	968-end (R1441H)
LRRK2 (Y1699C), Active	L10-12DG	Human	GST	Sf9 cells	968-end (Y1699C)
LRRK2 (Y1699G), Active	L10-12EG	Human	GST	Sf9 cells	968-end (Y1699G)
MELK (T460M), Active	M50-12G	Human	GST	Sf9 cells	1-550 (T460M)
MET (D1228A), Active	M52-12ZG	Human	GST	Sf9 cells	956-end (D1228A)
MET (D1228G), Active	M52-12B2G	Human	GST	Sf9 cells	956-end (D1228G)
MET (D1228H), Active	M52-12HG	Human	GST	Sf9 cells	956-end (D1228H)
MET (D1228N), Active	M52-12IG	Human	GST	Sf9 cells	956-end (D1228N)
MET (D1228V), Active	M52-12C2G	Human	GST	Sf9 cells	956-end (D1228V)
MET (D1228Y), Active	M52-12D2G	Human	GST	Sf9 cells	956-end (D1228Y)
MET (Del Ex14), Active	M52-12PG	Human	GST	Sf9 cells	956-end (Del Ex14)
MET (F1200I), Active	M52-12GG	Human	GST	Sf9 cells	956-end (F1200I)
MET (G1090A), Active	M52-12E2G	Human	GST	Sf9 cells	956-end (G1090A)
MET (G1163R), Active	M52-12XG	Human	GST	Sf9 cells	956-end (G1163R)
MET (H1094L), Active	M52-12VG	Human	GST	Sf9 cells	956-end (H1094L)
MET (H1094Y), Active	M52-12WG	Human	GST	Sf9 cells	956-end (H1094Y)
MET (K1244R), Active	M52-12QG	Human	GST	Sf9 cells	956-end (K1244R)
MET (L1195F), Active	M52-12YG	Human	GST	Sf9 cells	956-end (L1195F)
MET (L1195V), Active	M52-12TG	Human	GST	Sf9 cells	956-end (L1195V)

Product Name	Cat# No	Species	Tag	Expression System	Sequence
MET (M1250I), Active	M52-12SG	Human	GST	Sf9 cells	956-end (M1250I)
MET (M1250T), Active	M52-12BG	Human	GST	Sf9 cells	956-end (M1250T)
MET (P991S), Active	M52-12CG	Human	GST	Sf9 cells	956-end (P991S)
MET (R970C), Active	M52-12OG	Human	GST	Sf9 cells	956-end (R970C)
MET (T1173I), Active	M52-12FG	Human	GST	Sf9 cells	956-end (T1173I)
MET (T992I), Active	M52-12DG	Human	GST	Sf9 cells	956-end (T992I)
MET (V1092I), Active	M52-12EG	Human	GST	Sf9 cells	956-end (V1092I)
MET (Y1230A), Active	M52-12JG	Human	GST	Sf9 cells	956-end (Y1230A)
MET (Y1230C), Active	M52-12KG	Human	GST	Sf9 cells	956-end (Y1230C)
MET (Y1230D), Active	M52-12LG	Human	GST	Sf9 cells	956-end (Y1230D)
MET (Y1230H), Active	M52-12MG	Human	GST	Sf9 cells	956-end (Y1230H)
MET (Y1230S), Active	M52-12UG	Human	GST	Sf9 cells	956-end (Y1230S)
MET (Y1235D), Active	M52-12NG	Human	GST	Sf9 cells	956-end (Y1235D)
NPM1-ALK (F1174L), Active	A19-19EG	Human	GST	Sf9 cells	1-117 (NPM1) 1058-end (F1174L) (ALK)
NPM1-ALK, Active	A19-19BG	Human	GST	Sf9 cells	1-117 (NPM1) - 1058-end (ALK)
PAK2 (Y443N), Active	P03-12G	Human	GST	Sf9 cells	Full length (Y443N)
PDGFR alpha (D842V), Active	P12-12BG	Human	GST	Sf9 cells	550-end (D842V)
PDGFR alpha (E675G Y676C), Active	P12-12EG	Human	GST	Sf9 cells	550-end (E675G Y676C)
PDGFR alpha (G680R), Active	P12-12DG	Human	GST	Sf9 cells	550-end (G680R)
PDGFR alpha (T674I), Active	P12-12CG	Human	GST	Sf9 cells	550-end (T674I)
PFKFB3 (S269A), Active	P323-10BG	Human	GST	Sf9 cells	Full length (S269A)
PI3K (p110 alpha (E542K)/p85 alpha), Active	P27-122DH	Human	HIS	Sf9 cells	Full Length (p110 alpha (E542K)/p85 alpha)
PI3K (p110 alpha (E545K)/p85 alpha), Active	P27-152H	Human	HIS	Sf9 cells	Full Length (p110 alpha (E545K)/p85 alpha)
PI3K (p110 alpha (N345K)/p85 alpha), Active	P27-122CH	Human	HIS	Sf9 cells	Full Length (p110 alpha (N345K)/p85 alpha)
PI3K (p110 delta (E1021K)/p85 alpha), Active	P30-122H	Human	HIS	Sf9 cells	Full-Length (p110 delta (E1021K)/p85 alpha)
PKD2 (PRKD2) (G848E), Active	P76-12BG	Human	GST	Sf9 cells	Full Length (G848E)
PKD2 (PRKD2) (G870E), Active	P76-12CG	Human	GST	Sf9 cells	Full Length (G870E)
PRKACA (L206R), Active	P51-19CG	Human	GST	Sf9 cells	1-351 (L206R)
PTC1 (CCDC6-RET), Active	R02-19BG	Human	GST	Sf9 cells	CCDC6 (1-101)-RET (713-end)
PTC2 (PRKAR1A-RET), Active	R02-19CG	Human	GST	Sf9 cells	PRKAR1A (1-236)-RET (713-end)
PTC3 (NCOA4-RET), Active	R02-19DG	Human	GST	Sf9 cells	NCOA4 (1-238)-RET (713-end)
RAF1 (R391W), Active	R01-12BG	Human	GST	Sf9 cells	307-end (R391W)
RET (A883F), Active	R02-12MG	Human	GST	Sf9 cells	658-end (A883F)
RET (E762Q), Active	R02-12FG	Human	GST	Sf9 cells	658-end (E762Q)
RET (G691S), Active	R02-12DG	Human	GST	Sf9 cells	658-end (G691S)
RET (G810V), Active	R02-12QG	Human	GST	Sf9 cells	658-end (G810V)

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RET (L790F), Active	R02-12LG	Human	GST	Sf9 cells	658-end (L790F)
RET (M918T), Active	R02-12JG	Human	GST	Sf9 cells	658-end (M918T)
RET (M918T), Active	R02-12JH	Human	HIS	Sf9 cells	658-end (M918T)
RET (R749T), Active	R02-12EG	Human	GST	Sf9 cells	658-end (R749T)
RET (R813Q), Active	R02-12HG	Human	GST	Sf9 cells	658-end (R813Q)
RET (R912P), Active	R02-12PG	Human	GST	Sf9 cells	658-end (R912P)
RET (S891A), Active	R02-12IG	Human	GST	Sf9 cells	658-end (S891A)
RET (S904A), Active	R02-12OG	Human	GST	Sf9 cells	658-end (S904A)
RET (S904A), Active	R02-12OH	Human	HIS	Sf9 cells	658-end (S904A)
RET (S904F), Active	R02-12NG	Human	GST	Sf9 cells	658-end (S904F)
RET (S904F), Active	R02-12NH	Human	HIS	Sf9 cells	658-end (S904F)
RET (V738A), Active	R02-12RG	Human	GST	Sf9 cells	658-end (V738A)
RET (V778I), Active	R02-12KG	Human	GST	Sf9 cells	658-end (V778I)
RET (V804L), Active	R02-12BG	Human	GST	Sf9 cells	658-end (V804L)
RET (V804M), Active	R02-12GG	Human	GST	Sf9 cells	658-end (V804M)
RET (Y791F), Active	R02-12CG	Human	GST	Sf9 cells	658-end (Y791F)
RNF130-BRAF (Rex3Bex9), Active	B08-19GG	Human	GST	Sf9 cells	1-231 exon3 (RNF130) - 381-end or exon 9-18 (BRAF)
ROS1 (G2032R), Active	R14-12BG	Human	GST	Sf9 cells	1881-end (G2032R)
ROS1 (G2101A), Active	R14-12EG	Human	GST	Sf9 cells	1881-end (G2101A)
ROS1 (G2101C), Active	R14-12DG	Human	GST	Sf9 cells	1881-end (G2101C)
RSK2 (I416V), Active	R17-12BG	Human	GST	Sf9 cells	Full Length (I416V)
RSK2 (L608F), Active	R17-12CG	Human	GST	Sf9 cells	Full Length (L608F)
RSK2 (Y483C), Active	R17-12DG	Human	GST	Sf9 cells	Full Length (Y483C)
SRGAP3-BRAF (Sex12Bex9), Active	B08-19FG	Human	GST	Sf9 cells	1-513 exon12 (SRGAP3) 381-end or exon 9-18 (BRAF)
STRN-ALK (Sex3Aex20), Active	A19-19JG	Human	GST	Sf9 cells	1-137 (STRN)-1058-end (ALK)
TECR-PKN1(Tex1Pex10), Active	P70-19BG	Human	GST	Sf9 cells	1-5a.a., exons1 (TECR) - 473a.a.-end, exons10-22 (PKN1)
TFG-ALK (Tex4Aex20), Active	A19-19KG	Human	GST	Sf9 cells	1-138a.a., exons1-4 (TFG) - 1058a.a.-end, exons20-29 (ALK)
TFG-ALK (Tex5Aex20), Active	A19-19CG	Human	GST	Sf9 cells	1-193 (TFG)-1058-end (ALK)
TFG-MET (Tex5Mex15), Active	M52-19G	Human	GST	Sf9 cells	1-193a.a., exons1-5 (TFG) - 1010a.a.-end, exons15-21 (MET)
TFG-TRKA (TRK-T3), Active	N16-19CG	Human	GST	Sf9 cells	1-193 (TFG)-399-end (TRKA)
TGFBR1 (T204D), Active	T07-13G	Human	GST	Sf9 cells	80-end (T204D)
TIE2 (A1124V), Active	T04-12GG	Human	GST	Sf9 cells	771-end (A1124V)
TIE2 (L914F), Active	T04-12IG	Human	GST	Sf9 cells	771-end (L914F)
TIE2 (P883A), Active	T04-12CG	Human	GST	Sf9 cells	771-end (P883A)
TIE2 (R849W), Active	T04-12BG	Human	GST	Sf9 cells	771-end (R849W)
TIE2 (R915C), Active	T04-12JG	Human	GST	Sf9 cells	771-end (R915C)
TIE2 (Y1108F), Active	T04-12FG	Human	GST	Sf9 cells	771-end (Y1108F)

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TIE2 (Y897C), Active	T04-12DG	Human	GST	Sf9 cells	771-end (Y897C)
TIE2 (Y897H R915C), Active	T04-12KG	Human	GST	Sf9 cells	771-end (Y897H R915C)
TIE2 (Y897H), Active	T04-12HG	Human	GST	Sf9 cells	771-end (Y897H)
TIE2 (Y897S), Active	T04-12EG	Human	GST	Sf9 cells	771-end (Y897S)
TPM1-ALK, Active	A19-19LG	Human	GST	Sf9 cells	TPM1 (1-257)-ALK (1058-end)
TPM3-ALK, Active	A19-19DG	Human	GST	Sf9 cells	1-258 (TPM3) - 1058-end (ALK)
TPM3-PDGFR beta, Active	P13-19DG	Human	GST	Sf9 cells	1-258 (TPM3) - 528-end (PDGFRB)
TPM3-ROS1, Active	R14-19CG	Human	GST	Sf9 cells	1-258 (TPM3) - 1881-end (ROS1)
TPM3-TRKA, Active	N16-19DG	Human	GST	Sf9 cells	1-258 (TPM3) - 399-end (TRKA)
TPR-TRKA (TRK-T1), Active	N16-19BG	Human	GST	Sf9 cells	1-191 (TPR) - 399-end (TRKA)
TRKA (A608D), Active	N16-12DG	Human	GST	Sf9 cells	440-end (A608D)
TRKA (F589L), Active	N16-12EG	Human	GST	Sf9 cells	440-end (F589L)
TRKA (G595R A608D), Active	N16-12FG	Human	GST	Sf9 cells	440-end (G595R A608D)
TRKA (G595R G667A), Active	N16-12JG	Human	GST	Sf9 cells	440-end (G595R G667A)
TRKA (G595R G667C), Active	N16-12KG	Human	GST	Sf9 cells	440-end (G595R G667C)
TRKA (G595R G667S), Active	N16-12LG	Human	GST	Sf9 cells	440-end (G595R G667S)
TRKA (G595R L657M), Active	N16-12GG	Human	GST	Sf9 cells	440-end (G595R L657M)
TRKA (G595R), Active	N16-12BG	Human	GST	Sf9 cells	440-end (G595R)
TRKA (G667A), Active	N16-12MG	Human	GST	Sf9 cells	440-end (G667A)
TRKA (G667C), Active	N16-12CG	Human	GST	Sf9 cells	440-end (G667C)
TRKA (G667S), Active	N16-12NG	Human	GST	Sf9 cells	440-end (G667S)
TRKA (L657M), Active	N16-12HG	Human	GST	Sf9 cells	440-end (L657M)
TRKC (G623E), Active	N18-12BH	Human	HIS	Sf9 cells	507-end (G623E)
TRKC (G623R L686M), Active	N18-12EH	Human	HIS	Sf9 cells	507-end (G623R L686M)
TRKC (G623R), Active	N18-12CH	Human	HIS	Sf9 cells	507-end (G623R)
TRKC (G696A), Active	N18-12FH	Human	HIS	Sf9 cells	454-end (G696A)
TRKC (G696C), Active	N18-12GH	Human	HIS	Sf9 cells	454-end (G696C)
TRKC (L686M), Active	N18-12DH	Human	HIS	Sf9 cells	507-end (L686M)
YES1 (T348I), Active	Y01-12BG	Human	GST	Sf9 cells	Full Length (T348I)
ZAP70 (Y319F), Active	Z02-12BG	Human	GST	Sf9 cells	Full Length (Y319F)

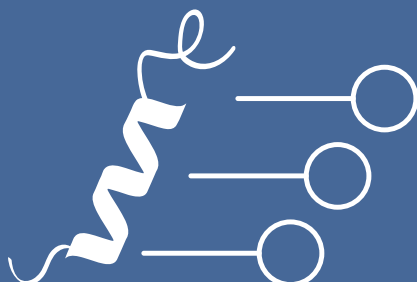
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