

## Product datasheet for **RC216097L4V**

### **KPI2 (LMTK2) (NM\_014916) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	KPI2 (LMTK2) (NM_014916) Human Tagged ORF Clone Lentiviral Particle
Symbol:	KPI2
Synonyms:	AATYK2; BREK; cprk; hBREK; KPI-2; KPI2; LMR2; PPP1R100
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_014916
ORF Size:	4509 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC216097).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_014916.2</a>
RefSeq Size:	5602 bp
RefSeq ORF:	4512 bp
Locus ID:	22853
UniProt ID:	<a href="#">Q8IWU2</a>
Cytogenetics:	7q21.3
Domains:	pkinese, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane



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**MW:** 164.92 kDa

**Gene Summary:** The protein encoded by this gene belongs to the protein kinase superfamily and the protein tyrosine kinase family. It contains N-terminal transmembrane helices and a long C-terminal cytoplasmic tail with serine/threonine/tyrosine kinase activity. This protein interacts with several other proteins, such as Inhibitor-2 (Inh2), protein phosphatase-1 (PP1C), p35, and myosin VI. It phosphorylates other proteins, and is itself also phosphorylated when interacting with cyclin-dependent kinase 5 (cdk5)/p35 complex. This protein involves in nerve growth factor (NGF)-TrkA signalling, and also plays a critical role in endosomal membrane trafficking. Mouse studies suggested an essential role of this protein in spermatogenesis. [provided by RefSeq, Oct 2009]