

Product datasheet for RC216097L2V

OriGene Technologies, Inc.

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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:

None

Vector: pLenti-C-mGFP (PS100071)

Tag: mGFP

ACCN: NM_014916 **ORF Size:** 4509 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC216097).

Sequence:

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. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

RefSeg: NM 014916.2

 RefSeq Size:
 5602 bp

 RefSeq ORF:
 4512 bp

 Locus ID:
 22853

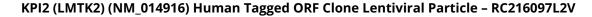
 UniProt ID:
 Q8IWU2

 Cytogenetics:
 7q21.3

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase, Transmembrane





ORIGENE

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 phosporylates other proteins, and is itself also phosporylated 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]