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Product datasheet for RC200438L1V

PKC zeta (PRKCZ) (NM_001033581) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	PKC zeta (PRKCZ) (NM_001033581) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PRKCZ
Synonyms:	PKC-ZETA; PKC2
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_001033581
ORF Size:	1776 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200438).
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.
RefSeq:	NM_001033581.1, NP_001028753.1
RefSeq Size:	2147 bp
RefSeq ORF:	1230 bp
Locus ID:	5590
UniProt ID:	Q05513
Cytogenetics:	1p36.33
Protein Families:	Druggable Genome, Protein Kinase

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Protein Pathways:	Chemokine signaling pathway, Endocytosis, Insulin signaling pathway, Tight junction, Type II diabetes mellitus
MW:	67.7 kDa
Gene Summary:	Protein kinase C (PKC) zeta is a member of the PKC family of serine/threonine kinases which are involved in a variety of cellular processes such as proliferation, differentiation and secretion. Unlike the classical PKC isoenzymes which are calcium-dependent, PKC zeta exhibits a kinase activity which is independent of calcium and diacylglycerol but not of phosphatidylserine. Furthermore, it is insensitive to typical PKC inhibitors and cannot be activated by phorbol ester. Unlike the classical PKC isoenzymes, it has only a single zinc finger module. These structural and biochemical properties indicate that the zeta subspecies is related to, but distinct from other isoenzymes of PKC. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]