

OriGene Technologies, Inc.

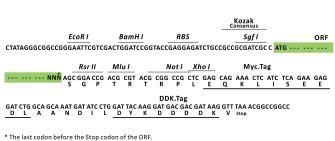
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Product datasheet for RC200438L1

PKC zeta (PRKCZ) (NM_001033581) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKC zeta (PRKCZ) (NM_001033581) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	PKC zeta
Synonyms:	PKC-ZETA; PKC2
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200438).
Restriction Sites:	Sgfl-RsrII
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Rsr II GCG ATC GC C ATG NNN AGC GGA CCG



The last codon before the Stop codon of the Ol

ACCN: ORF Size: NM_001033581 1776 bp



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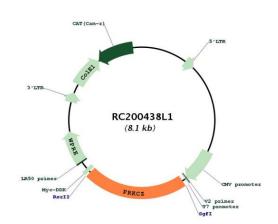
	C zeta (PRKCZ) (NM_001033581) Human Tagged Lenti ORF Clone – RC200438L1
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Meth	 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 001033581.1, NP 001028753.1</u>
RefSeq Size:	2147 bp
RefSeq ORF:	1230 bp
Locus ID:	5590
UniProt ID:	<u>Q05513</u>
Cytogenetics:	1p36.33
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chemokine signaling pathway, Endocytosis, Insulin signaling pathway, Tight junction, Type II diabetes mellitus
MW:	67.7 kDa

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Science PKC zeta (PRKCZ) (NM_001033581) Human Tagged Lenti ORF Clone – RC200438L1

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]

Product images:



Circular map for RC200438L1

Double digestion of RC200438L1 using Sgfl and Rsrll

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