

Product datasheet for **SC330041**

PKC zeta (PRKCZ) (NM_001242874) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PKC zeta (PRKCZ) (NM_001242874) Human Untagged Clone
Tag: Tag Free
Symbol: PRKCZ
Synonyms: PKC-ZETA; PKC2
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330041 representing NM_001242874.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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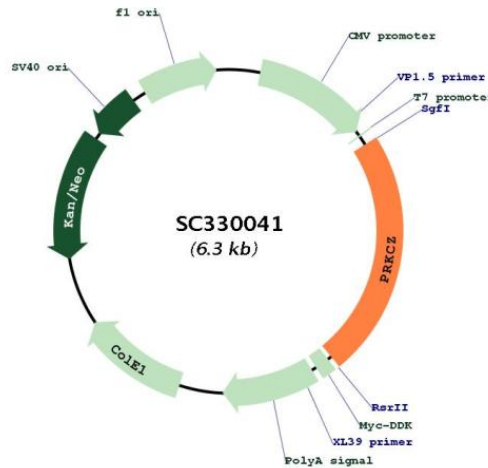
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ACCGAGGAGTCGGTGTGA
  
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Restriction Sites: Sgfl-RsrII



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Plasmid Map:



ACCN: NM_001242874

Insert Size: 1467 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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 Method:

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: [NM_001242874.1](#)

RefSeq Size: 2154 bp

RefSeq ORF: 1467 bp

Locus ID: 5590

UniProt ID: [Q05513](#)

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:	56.1 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (3) has a shorter and distinct N-terminus compared to isoform 1.</p>