

Product datasheet for **RG239276**

PKC theta (PRKCQ) (NM_001282644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKC theta (PRKCQ) (NM_001282644) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PKC theta
Synonyms:	nPKC-theta; PRKCT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG239276 representing NM_001282644.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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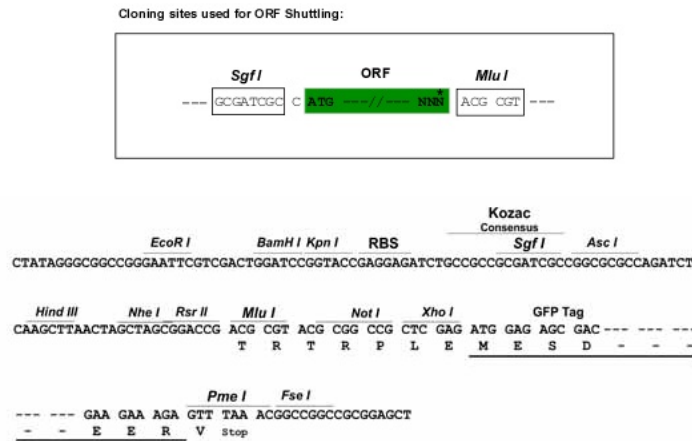
Protein Sequence: >Peptide sequence encoded by RG239276
 Blue=ORF Red=Cloning site Green=Tag(s)

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VCHFEVWGLNKQGYQCRQCNAAIHKKCIDKVIKCTGSAINSTMFHKERFKIDMPHRFKVYNYKSP
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282644

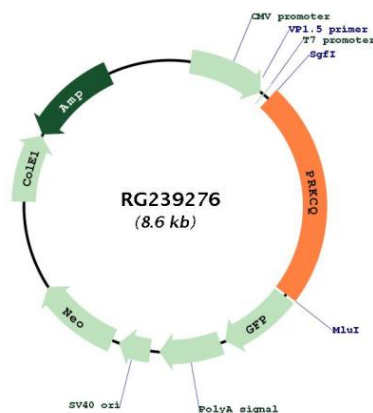
ORF Size: 2010 bp

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.

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).
RefSeq:	NM_001282644.2
RefSeq Size:	3293 bp
RefSeq ORF:	2013 bp
Locus ID:	5588
UniProt ID:	Q04759
Cytogenetics:	10p15.1
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Protein Pathways:	Adipocytokine signaling pathway, T cell receptor signaling pathway, Tight junction, Vascular smooth muscle contraction
MW:	78.4 kDa
Gene Summary:	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role. The protein encoded by this gene is one of the PKC family members. It is a calcium-independent and phospholipid-dependent protein kinase. This kinase is important for T-cell activation. It is required for the activation of the transcription factors NF-kappaB and AP-1, and may link the T cell receptor (TCR) signaling complex to the activation of the transcription factors. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG239276