

## Product datasheet for **RC221652**

### PKC delta (PRKCD) (NM\_006254) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PKC delta (PRKCD) (NM_006254) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PKC delta
Synonyms:	ALPS3; CVID9; MAY1; nPKC-delta; PKCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

&gt;RC221652 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCCATGGCGCCGTTCTCGCATCGCCTTCACTCCTATGAGCTGGGCTCCCTGCAGGCCGAGGACGAGGCGA  
ACCAGCCCTTCTGTGCCGTGAAGATGAAGGAGGCGCTCAGCACAGAGCGTGGGAAAACACTGGTGCAGAA  
GAAGCCGACCATGTATCCTGAGTGAAGTCGACGTTTCGACGCCACATCTATGAGGGCGCGTCATCCAG  
ATTGTGCTAATGCGGGCAGCAGAGGAGCCAGTGTCTGAGGTGACCGTGGGTGTGTCGGTGTGGCCGAGC  
GCTGCAAGAAGAACAATGGCAAGGCTGAGTTCTGGCTGGACCTGCAGCCTCAGGCCAAGGTGTTGATGTC  
TGTTTCAGTATTTCTGGAGGACGTGGATTGCAAACAGTCTATGCGCAGTGAGGACGAGGCCAAGTCCCA  
ACGATGAACCGCCGCGGAGCCATCAAACAGGCCAAAATCCACTACATCAAGAACCATGAGTTTATCGCCA  
CCTTCTTTGGCAACCCACCTTCTGTTCTGTGTGCAAAGACTTTGTCTGGGGCTCAACAAGCAAGGCTA  
CAATGCAGGCAATGTAACGCTGCCATCCACAAGAAATGCATCGACAAGATCATCGGCAGATGCACTGGC  
ACCGCGGCCAACAGCCGGGACACTATATCCAGAAAGAACGCTTCAACATCGACATGCCGACCCGCTTCA  
AGGTTCACAACTACATGAGCCCCACCTTCTGTGACCCTGCGGCAGCCTGCTCTGGGGACTGGTGAAGCA  
GGGATTAAGTGTGAAGACTGCGGCATGAATGTGCACCATAAATGCCGGGAGAAGGTGGCCAACCTCTGC  
GGCATCAACCAGAAGCTTTTGGCTGAGGCTTGAACCAAGTCAACCAGAGAGCCTCCCGGAGATCAGACT  
CAGCCTCTCAGAGCCTGTTGGGATATATCAGGGTTTCGAGAAGAAGACCCGGAGTTGCTGGGGAGGACAT  
GCAAGACAACAGTGGGACCTACGGCAAGATCTGGGAGGGCAGCAGCAAGTGAACATCAACAACCTCATC  
TTCACAAGGTCTGGGCAAAGGCAGCTTCGGGAAGGTGCTGCTTGGAGAGCTGAAGGGCAGAGGAGAGT  
ACTTTGCCATCAAGGCCCTCAAGAAGGATGTGGTCTGATCGACGACGACGTGGAGTGCACCATGGTTGA  
GAAGCGGGTGTGACACTTGCCGAGAGAATCCCTTTCTACCCACCTCATCTGCACCTTCCAGACCAAG  
GACCACCTGTTCTTTGTGATGGAGTTCTCAACGGGGGGACCTGATGTACCACATCCAGGACAAAGGCC  
GCTTTGAACTCTACCGTGCCACGTTTTATGCCGCTGAGATAATGTGTGGACTGCAGTTTCTACACAGCAA  
GGGCATCATTTACAGGGACCTCAAACCTGGACAATGTGCTGTTGGACCGGGATGGCCACATCAAGATTGCC  
GACTTTGGGATGTCAAAGAGAACATATCGGGGAGAGCCGGGCCAGCACCTTCTGCGGCACCCCTGACT  
ATATCGCCCTGAGATCCTACAGGGCTGAAGTACACATTTCTCTGTGGACTGGTGGTCTTTGCGGGTCT  
TCTGTACGAGATGCTCATTGGCCAGTCCCCTTCCATGGTATGATGAGGATGAACCTTCGAGTCCATC  
CGTGTGGACACGCCACATTATCCCCTGGATCACCAGGAGTCCAAGGACATCCTGGAGAAGCTCTTTG  
AAAGGGAACCAACCAAGAGGCTGGGAGTGACGGGAAACATCAAAATCCACCCCTTCTTCAAGACCATAAA  
CTGGACTCTGCTGAAAAAGCGGAGGTTGGAGCCACCTTCAGGCCAAAAGTGAAGTCAACCAGAGACTAC  
AGTAACTTTGACCAGGAGTTCTGAACGAGAAGGCGCGCCTCTCTACAGCGACAAGAACCTCATCGACT  
CCATGGACCAGTCTGCATTCGCTGGCTTCTCTTTGTGAACCCAAATTCGAGCACCTCCTGGAAGATACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC221652 protein sequence  
Red=Cloning site Green=Tags(s)

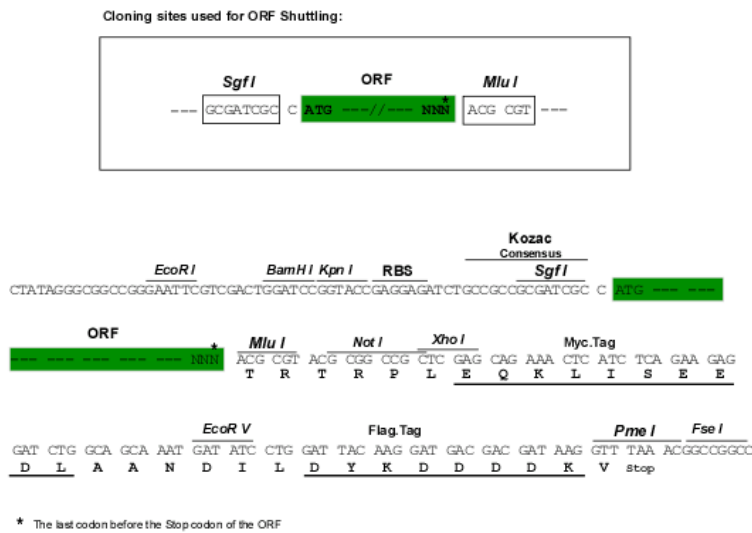
```
MAPFLRIAFNSYELGSLQAEDEANQPFCVAKMKEALSTERGKTLVQKKPTMYPEWKSTFDAHIYEGRVIO
IVLMRAAEEPVSEVTVGVSVLAERCKKNGKAEFWLDLQPAKVLMSVQYFLEDVDCQSMRSEDEAKFP
TMNRRGAIKQAKIHYIKNHEFIATFFGQPTFCVCKDFVWGLNKQGYKCRQCNAAIHKKCIDKIIIGRCTG
TAANSRDTIFQKERFNIDMPHRFKVHNYMSPTFCDHCGSLLWGLVKQGLKCEDCGMNVHHKCREKVANLC
GINQKLLAEALNQVTQRASRRSDSASSEPVGIYQGFEEKTVGAGEDMQDNSGTYGKIWEGSSKCNINFI
FHKVLGKGSFGKVLGELKGRGEYFAIKALKKDVVLIIDDVECTMVEKRVLTAAENPFLTHLICTFQTK
DHLFFVMEFLNGGDLMYHIQDKGRFELYRATFYAAEIMCGLQFLHSGKGIYRDLKLDNVLLDRDGHKIA
DFGMCKENIFGESRASTFCGTPDYIAPEILQGLKYTFSVDWWSFGVLLYEMLIQGSFPHGDDDELFESEI
RVDTPHYRWITKESKDILEKLFEREPTKRLGVTGNIKIHPFFKINWTLLEKRRLEPPFRPKVKSPRDY
SNFDQEFLEKARLSYSDKNLIDSMDQSAFAGFSFVNPKEHLLLED
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6693\\_a10.zip](https://cdn.origene.com/chromatograms/mk6693_a10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006254

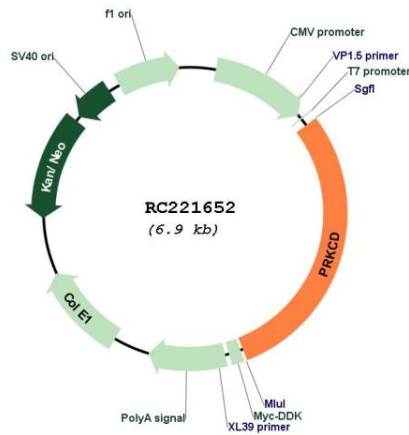
**ORF Size:** 2028 bp

<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_006254.2</a>
<b>RefSeq Size:</b>	2850 bp
<b>RefSeq ORF:</b>	2031 bp
<b>Locus ID:</b>	5580
<b>UniProt ID:</b>	<a href="#">Q05655</a>
<b>Cytogenetics:</b>	3p21.1
<b>Domains:</b>	pkinese, S_TK_X, TyrKc, DAG_PE-bind, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Chemokine signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, GnRH signaling pathway, Neurotrophin signaling pathway, Tight junction, Type II diabetes mellitus, Vascular smooth muscle contraction
<b>MW:</b>	77.5 kDa

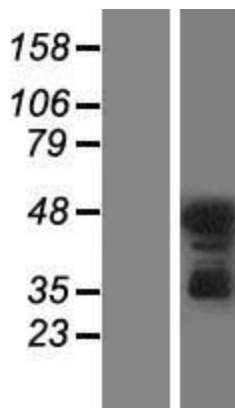
**Gene Summary:**

The protein encoded by this gene is a member of the protein kinase C family of serine- and threonine-specific protein kinases. The encoded protein is activated by diacylglycerol and is both a tumor suppressor and a positive regulator of cell cycle progression. Also, this protein can positively or negatively regulate apoptosis. Defects in this gene are a cause of autoimmune lymphoproliferative syndrome. [provided by RefSeq, Aug 2017]

**Product images:**



Circular map for RC221652



Western blot validation of overexpression lysate (Cat# [LY416774]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221652 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).