

## Product datasheet for **SC116249**

### PKC delta (PRKCD) (NM\_212539) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PKC delta (PRKCD) (NM_212539) Human Untagged Clone
Tag:	Tag Free
Symbol:	PKC delta
Synonyms:	ALPS3; CVID9; MAY1; nPKC-delta; PKCD
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_212539 edited  
 ATGGCGCCGTTCTCGCATCGCCTTCAACTCCTATGAGCTGGGCTCCCTGCAGGCCGAG  
 GACGAGGCCAACCAGCCCTTCTGTGCCGTGAAGATGAAGGAGGCGCTCAGCACAGAGCGT  
 GGGAAAACACTGGTGCAGAAGAAGCCGACCATGTATCCTGAGTGGAAAGTCGACGTTTCGAT  
 GCCACATCTATGAGGGGCGCGTCATCCAGATTGTGCTAATGCGGGCAGCAGAGGAGCCA  
 GTGTCTGAGGTGACCGTGGTGTGTGCGTGTGCGCCGAGCGCTGCAAGAAGAACAATGGC  
 AAGGCTGAGTTCTGGCTGGACCTGCAGCCTCAGGCCAAGGTGTTGATGTCTGTTCAAGTAT  
 TTCTGAGGACGTGGATTGCAAACAGTCTATGCGCAGTGAGGACGAGGCCAAGTCCCA  
 ACGATGAACCGCCGCGGAGCCATCAAACAGGCCAAAATCCACTACATCAAGAACCATGAG  
 TTTATCGCCACCTTCTTTGGCAACCCACCTTCTGTTCTGTGTGCAAAGACTTTGTCTGG  
 GGCCTCAACAAGCAAGGCTACAAATGCAGGCAATGTAACGCTGCCATCCACAAGAAATGC  
 ATCGACAAGATCATCGGCAGATGCACTGGCACC GCGGCCAACAGCCGGGACACTATATTC  
 CAGAAAGAACGCTTCAACATCGACATGCCGACC GCTTCAAGGTTCACACTACATGAGC  
 CCCACCTTCTGTGACCACTGCGGCAGCCTGCTCTGGGGACTGGTGAAGCAGGGATTAAG  
 TGTGAAGACTGCGGCATGAATGTGCACCATAAATGCCGGGAGAAGGTGGCCAACCTCTGC  
 GGCATCAACCAGAAGCTTTTGGCTGAGGCTTGAACCAAGTCACCCAGAGAGCCTCCCGG  
 AGATCAGACTCAGCCTCCTCAGAGCCTGTTGGGATATATCAGGGTTTCGAGAAGAAGACC  
 GGAGTTGCTGGGAGGACATGCAAGACAACAGTGGGACCTACGGCAAGATCTGGGAGGGC  
 AGCAGCAAGTGAACATCAACAACCTTCTCTTCCACAAGTCTGGGCAAGGCAGCTTC  
 GGAAGGTGCTGCTTGGAGAGCTGAAGGGCAGAGGAGTACTTTGCCATCAAGGCCCTC  
 AAGAAGGATGTGGTCTGATCGACGACGACGTGGAGTGCACCATGGTTGAGAAGCGGGTG  
 CTGACACTTGGCCAGAGAATCCCTTTCTACCCACCTCATCTGCACCTCCAGACCAAG  
 GACCACCTGTTCTTTGTGATGGAGTTCCTCAACGGGGGGGACCTGATGTACCACATCCAG  
 GACAAAGCCGCTTTGAACTCTACCGTGCCACGTTTTATGCCGCTGAGATAATGTGTGGA  
 CTGCAGTTTCTACACAGCAAGGGCATCATTTACAGGGACCTCAAACCTGGACAATGTGCTG  
 TTGGACCGGGATGGCCACATCAAGATTGCCGACTTTGGGATGTGCAAAGAGAACATATTC  
 GGGGAGAGCCGGGCCAGCACCTTCTGCGGCACCCCTGACTATATCGCCCCTGAGATCCTA  
 CAGGGCCTGAAGTACACATTCTCTGTGGACTGGTGGTCTTTGGGGTCTTCTGTACGAG  
 ATGCTCATTGGCCAGTCCCCTTCCATGGTGTGATGAGGATGAACTCTTCGAGTCCATC  
 CGTGTGGACACGCCACATTATCCCCGCTGGATCACCAAGGAGTCCAAGGACATCCTGGAG  
 AAGCTCTTTGAAAGGGAACCAACCAAGAGGCTGGGAGTGACGGGAACATCAAAATCCAC  
 CCTTCTTCAAGACCATAACTGGACTCTGCTGGAAGGCGGAGGTTGGAGCCACCTTC  
 AGGCCCAAAGTGAAGTCAACCCAGAGACTACAGTAACTTTGACCAGGAGTTCCTGAACGAG  
 AAGGCGCGCTCTCTACAGCGACAAGAACCTCATCGACTCCATGGACCAGTCTGCATTC  
 GCTGGCTTCTCTTTGTGAACCCAAAATTCGAGCACCTCCTGGAAGATTGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_212539 unedited  
 CACCCATTCCGCACGAGGCCGCGCGCGGAGCCGAGGCGGCTGTAGCCACATCTCCC  
 GATCGACCCCGCGCCCCGCCGCGCGGAGGCCCGGGCCACACCTCACTGGCCGCTT  
 GGCCCATCCCAGTCAGCGCCGCGCCGAACCCGTCGCGCGCGCCGGGAGCGGCTTTCT  
 CTTGCTGCCCGCGACCTTGGCGCCTGCCCTGCAACGGGAGCCCCACTGCAGGCC  
 CACCATGGCGCGTTCTGCGCATCGCCTTCAACTCCTATGAGCTGGGCTCCCTGCAGGC  
 CGAGGACGAGGCGAACAGCCCTTCTGTGCCGTGAAGATGAAGGAGGCGCTCAGCACAGA  
 GCGTGGGAAAACACTGGTGCAGAAGAAGCCGACCATGTATCCTGAGTGGAAAGTCGACGTT  
 CGATGCCACATCTATGATGGGCGCGTCATCCAGATTGTGCTAATGCGGGCAGCAGAGGA  
 GCCAGTGTCTGAGGTGACCGTGGTGTGTCGGTGTGCGCCGAGCGCTGCAAGAAGAACA  
 TGGCAAGGCTGAGTTCTGGCTGGACCTGCAGCCTCAGGCCAAGGTGTTGATGTCTGTTCA  
 GTATTTCTGGAGGACGTGGATTGCAAACAGTCTATGCGCAGTGAGGACGATGCCAAGTT  
 CCCAACGATGAACCGCGCGGAGCCATCAAACAGGCCAAAATCCACTACATCAAGAACCA  
 TGAGTTTATCGCCACCTTCTTTGGGCAACCCACCTTCTGTTCTGTGTGCAAAGACTTTGT  
 CTGGGGCCCTCAACAAGCAAGGCTACAAATGCAAGCNATGTNACGCTGCCATCACAAGAA  
 ATGCATCGACCAGATCATCGGCAGATGCAC

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_212539 unedited CAATCNANAGTCGAGTTTTTTTTTTTTTTTTTTTGTTCATATATATATTTTTTTTAAAAAGA CAACATATCACCAGTCCCCCATGGTTTTTCTCTACTGAGCAATATATACAGCCTATTATA TATATATATATGTCTATGTATATAATATATATTTTCAATAGATAACTACATTCAAGTAAT GAAACACAGGATTTACAATTTCCCTCCGAAGGCAGAGGAAAAGCAGATTCACACACAGTT CACAGAGGAAGTACCATGAGAGCCCGGCCAGACGGCAGCAAGGACGCTCTGGGGGCAGG GGCGGGGCCAGCAGCAGAAGTCACCACAGTCCCCTGGTCTTATCGTGGGGAGCGGGCA TGTGTGGGTGGAGGGCACGGCTAGCCTGATCTGTCCAGGAACCTCAATCTTCCAGGAGGT GCTCGAATTTGGGTTTCAAAAGGAGAACCAGCAATGCACACTGGTCCATGGAGCCGA TGAGGTTCTTGTCTGTAAAGAGAGGCGCGCTTCTTCTCACGAACTCCCGGTCAAAGT TACCGTAGCCTCTGGGGACTTCACTTTGGGCCCTGAAGGCGGCTCCAACCTCCCCTCTT TCATCATATCCACCCCATCGCCCCCAGACGGCGCGACTCTGATGTTTCCCGCACTCC CATTCTCTTGGCGGGCCCCCTTACACAGCCTTCTCATAACTTTCTTTCACCCCCC GCCGACCACTCCGACAATGTGGTTGCGTTCCCCTCCTCGCCCCACACTAGTATCTCC ATATATTTATCCAGAATCGGGAACCGCCCCCCTCTTCTTTTCTCCCCCTGTTTT ATCCCCTTCTCTTATCCCCCCCGCCCCCTGTTCCCCCGTTCTATTTTTTCTCTCC ATCCGCCCCCTCCGCTTCTCTTCCCCCTATTCCCCCGTACCCCCGTTGTCCCCT CCCACCTTTCCATTTATTTCCCTCCCCCCCCCTCTTCTTTTCGCCCCCG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_212539
<b>Insert Size:</b>	2820 bp
<b>OTI Disclaimer:</b>	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).
<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>RefSeq:</b>	<u><a href="#">NM_212539.1</a></u> , <u><a href="#">NP_997704.1</a></u>
<b>RefSeq Size:</b>	2738 bp
<b>RefSeq ORF:</b>	2031 bp
<b>Locus ID:</b>	5580
<b>UniProt ID:</b>	<u><a href="#">Q05655</a></u>
<b>Cytogenetics:</b>	3p21.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase

**Protein Pathways:** 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

**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]  
Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 4. The resulting isoform (c) is shorter at the N-terminus compared to isoform a. Variants 1, 2, 3, 6, and 7 all encode the same isoform (c).