

Product datasheet for **SC118457**

PKC mu (PRKD1) (NM_002742) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKC mu (PRKD1) (NM_002742) Human Untagged Clone
Tag:	Tag Free
Symbol:	PKC mu
Synonyms:	CHDED; PKC-MU; PKCM; PKD; PRKCM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_002742 edited
ATGAGCGCCCCTCCGGTCTGCGGCCGCCAGTCCGCTGCTGCCCGTGGCGGGCGGCAGCT
GCCGCAGCGGCCGCCGACTGGTCCCAGGGTCCGGGCCCGGGCCCGCCGCTTCTTGGCT
CCTGTGCGGGCCCCGGTCCGGGGCATCTCGTCCATCTGCAGATCGGCCCTGAGCCGTGAG
CCGGTGTGTGCTGCAGGACTCGTCCGGGGACTACAGCCTGGCGCACGTCCGCGAGATG
GCTTGTCCATTGTGACCAGAAGTCCCTGAATGTGGTTTCTACGGAATGTATGATAAG
ATCCTGCTTTTTCGCCATGACCCCTACCTCTGAAAACATCCTTCAGCTGGTGAAGCGGGC
AGTGATATCCAGGAAGGCGATCTTATTGAAGTGGTCTTGTGAGCTTCCGCCACCTTTGAA
GACTTTCAGATTCGTCGCCACGCTCTCTTTGTTTCATTACATACAGAGCTCCAGCTTCTGT
GATCACTGTGGAGAAATGCTGTGGGGGCTGGTACGTCAAGGTCTTAAATGTGAAGGGTGT
GGTCTGAATTACCATAAGAGATGTGCATTTAAAAATACCAACAATTGCAGCGGTGTGAGG
CGGAGAAGGCTCTCAAACGTTTCCCTCACTGGGGTCCAGCACCATCCGCACATCATCTGCT
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ATTGGTCGAGAGAAGAGTCAAATCTCAATCATAACATTGGACGACCAATTCACCTTGAC
AAGATTTTGTATGCTAAAGTTAAAGTGCCGCACACATTTGTCATCCACTCTACACCCGG
CCACAGTGTGCCAGTACTGCAAGAAGCTTCTGAAGGGGCTTTTTCAGGCAGGGCTTGCAG
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AGGTAACAAGGAAATTCCTTTATCTGAAATTTTGTCTCTGGAACCAAGTAAAAACTTCA
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TATTATGTGGGAGAAAATGTGGTCAATCCTTCCAGCCCATCACCATAAACAGTGTCTC
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ACCCATGAAAGTGTGACCTGAGGTGGGAGAAGTATGCAGGCGAGCAGGGGCTGCAGTAC
CCCACACACCTGATCAATCCAAGTCTAGCCACAGTGACACTCCTGAGACTGAAGAAACA
GAAATGAAAGCCCTCGGTGAGCGTGTGACATCCTCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002742 unedited
 ATTTACANATTTGTATACACTCACTATAGGCGGCCGGAATCGGCACGAGTCCGAAAAGT
 TTTTATTTTCCGTCTCGGGCTCTCGGNAGAAAGAGCTCCTGGCTCAGCGGCTGCAAAAC
 TTTCTGACCGCCGCGCCGCCAGCCCCGCCCTCCGCTGCCCGGCCCTGCGCCCCGCCGA
 GCGATGAGCGCCCTCCGGTCTCGGGCCGCCAGTCCGCTTGTGCCGTGGCGCGGC
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 GGCTCCTGTGCGGGCCCGGTGCGGGGCATCTCGTTCCATCTGCAGATCGGCTGAGCCG
 TGAGCCGGTGTCTGCTGCTGCAGGACTCGTCCGGGACTACAGCCTGGCGCACGTCCGCGA
 GATGGCTTGCTCCATTGTCGACCAGAAGTTCCTGAATGTGGTTTCTACGAATGTATGA
 TAAGATCTGCTTTTTCGCCATGACCCTACCTCTGAAAACATCCTTACAGCTGGTAAAGC
 GGCCAGTGATATCCAGGAAGGGATCTTATTGAAGTGGTCTTGTGAGCTTCCGCCACCT
 TTGAAGACTTTCAGATTCGTCGCCACGCTCTTTTGTTCATTACACAGAGCTCCAGCTT
 TCTGTGACTACTGCGGAGAAAAGCTGTGCGGGCTGGTACGTCAAAGTCTAAATGTGAAG
 GGTGTGGTCTGAAATACCATAAGAGATGTGATTTAAAAACCAACAATTGCAACGGGTG
 TGAAGCCGGAGAGGGCTCTCAAACGCTTCCCTACTGGGGCAGAACCATCCGCACATAA
 TTTGCTGAAATCTCTAAACTGCCCCGAGGAGCCCTTCTGAAAAATAACCACACAAG
 CCGTTTATTGGTCCAGAGAGAAGGCCAAATTCTCATCATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002742 unedited
 CCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGACAAAATATTTTTTAT
 TATTGAAAATACAAAAGGTGAAAGTTGCTGAGCAGCTGATTTTCCATAGTACAACAGA
 GTATTATAAGAAAGAGGGAAATGTATCTGTTATATATGGCAGTTTACATTTCTAAGGCAT
 TTAGGCTTAAGAGCACTAGGTCTTGACAGCTAGGTGCATTGCCTTGAGCCAAAATATAC
 TGAGGCCACCAGCCAGGCACAGGCATCAAACCTCCACCTTAAACCTTGATCTTGCCCTC
 GTCCCTCCCGACCTAATCCCCCTATCCTTTCCCCCTTCGCTCCGCTTTGGCCCTAGCT
 ACCCCCCCTCCCCCTTCTTCTTCCCTCCCTCCACCACTTTCCCCCCCCCCCCCTCC
 TGAACATCCTCCCCCTCACCTCCTCCTCACCCCTCTACCCCTTCCCTCTCCTCCTCC
 CCCCCCTTCCCCCCCCCTCTCCTCCACCCCTCCACACCTTTTCCCGCTCCTCCT
 CCCCCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT
 CCCTTCCCTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT
 CCCTTATTCCTTCTTCCACACTTATTCATTCCCGGACACCGCTTCCCCCTCCTC
 CCCCACCGCCCTTCCGTTATAGCTTGCCCCCACACTCTCCCCATTCCCCACCCCTCGC
 CCCCCATCCTCCCTTTCTCCTCCCTTATCCCTTTCCCTCCTCACACGCCCACT
 CATCCCTCCACCCCCACCTCCACCCCATCCATTATCCCGTCTCCCCCATCTAT
 CCCCTCCTCCCTCCTTCTTATCCTCCTCCCCCTTTTCTTATTTTTTTTCCCTCC
 CCGCCCCACCCCTTCTCGTCCCATCCCCCTTATACATCCCCGGTTA

Restriction Sites:

NotI-NotI

ACCN:

NM_002742

Insert Size:

3570 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_002742.1](#), [NP_002733.1](#)

RefSeq Size: 3742 bp

RefSeq ORF: 2739 bp

Locus ID: 5587

UniProt ID: [Q15139](#)

Cytogenetics: 14q12

Domains: pkinase, TyrKc, PH, DAG_PE-bind, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: The protein encoded by this gene is a serine/threonine protein kinase involved in many cellular processes, including Golgi body membrane integrity and transport, cell migration and differentiation, MAPK8/JNK1 and Ras pathway signaling, MAPK1/3 (ERK1/2) pathway signaling, cell survival, and regulation of cell shape and adhesion. [provided by RefSeq, Jan 2017]
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 2.