

Product datasheet for **SC116506**

PKC nu (PRKD3) (NM_005813) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKC nu (PRKD3) (NM_005813) Human Untagged Clone
Tag:	Tag Free
Symbol:	PKC nu
Synonyms:	EPK2; nPKC-NU; PKC-NU; PKD3; PRKCN
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_005813 edited
ATGTCTGCAAATAATCCCTCCATCAGCCAGAGTCTGTATTACCCACAGCTATTCCT
GCTGTGCTTCCAGCTGCTTCTCCGTGTTCAAGTCTAAGACGGGACTCTCTGCCGACTC
TCTAATGGAAGCTTCAGTGCACCATCACTACCAACTCCAGAGGCTCAGTGCATACAGTT
TCATTTCTACTGCAAATTGGCCTCACACGGGAGAGTGTTACCATTGAAGCCCAGGAACTG
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CTTTCAGCTTTAGCCACAGTAGAAGACTTCCAGATTCTGCCACATACTCTCTATGTACAT
TCTTACAAAGCTCCTACTTTCTGTGATTACTGTGGTGAGATGCTCTGGGATTGGTACGT
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GGCCTCTCAGTTCGAAGACCCCTACAGCCTGAATATGTAGCCCTTCCAGTGAAGAGTCA
CATGTCCACCAGGAACCAAGTAAGAGAATTCCTTCTGGAGTGGTCGCCAATCTGGATG
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CGTCCCACGATATGTCAGTACTGCAAGCGTTACTGAAAGGCCTCTTTCGCCAAGGAATG
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CCTAATCCAGATGATATGGAAGAAGATCCTTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005813 unedited
 GGTGTTCAAATTTTGTAAACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGCTTT
 TATTCAATATGTATTTCTGAAATTAAGAGACAAGTACAGACTGAAAGGAAAATAGATT
 CGTAAATAAGCTACGTCAACTCTATCCTGCTGAGGATAGCTCAGTGATGTTAAATCCTTT
 ACAAATCCCTGGTTGTCTTCTACAGACAAGACTGCTTTTTGATGGGACTGATATTAAGA
 GAAATAGGACCTTTGGGGCATTCAACTCCTTGATAAAAACCTAAAAGTATCGGCATGAGTG
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 CTGCTGTTATTTTAAAAACCTTTCATAACCATTTGAAAAAGAATCGACAACATTTTTAAA
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 GACATGAACTCAGAAACATTNTGCAGCTGATTACCCTACAGATGAAATACATGAAGGAGA
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 CTCTCTGTACATCTACAAGCTCTACTTCTGTGAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005813 unedited
 AGCTATGGACGCGCCGCAATCTANATCGAGNNTTTTTTTTTTTTTTTTTTTTTTTAGTA
 GAAAAATTATAAATGAGCTTTTTTTTATTTTTGGCAGGTTAAAAAAAACAGGGTTTTT
 AAATATAGCATTAGTTCCATTTACAAACTGTTTCCAAAATAGTTCTTTTACCAAGGTC
 TGGTAAAATAACACAACCAGTAAAACCTTTTTTTGGATACTTATACTAGAAATAGGCTC
 AGGTTTTCACATGAAAAAGTATGGTGATAGGAAATACATTTTATTATCAAGCTTCCAGTA
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 AGACTACTTTGTACATTACCAATGTTCCCTAGCAACTACCTTCTTTTACAAAACAGACTT
 AAAGACAAAAAGTTATGCAGGTTATACAGTATCTGGAATAATCATTCCACTCCCACATTC
 TCTGACCGTGCCTTTACAAAATTTTTAAAAATTTTTTAGGCATTTACCAACCAATACC
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 ATGGTCCGACCAATTGTCACCTTACATACTGAACCCACTCCTCATTGATTGCTACTCG
 CCCCATAATTATCCCCTTTGTGGCTGCCGCTCACACATACCCTTCCCCATTTGGCTAT
 CCTTTTCCCCCCTTTCAATACTCCCCCCCATAAACCCACTTCTTGCGAATTTCCCCG
 CCTCTCTTCTCCGCCCTTCTTTTCTTCCCCTCCCCCGGCGTTTCCCCCGCCGC
 CTTATTTGCGACCCCGCCCTCTTCAATTTGTCCGCCCTTCGCCCGCGCCCCCCCATC
 TGCTTCTTCTTTATCTTCTCGCTCGCCCGCGCAGTTTGATCTCTCCGCTCCCTACC
 TCTCCTCT

Restriction Sites:

NotI-NotI

ACCN:

NM_005813

Insert Size:

6220 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_005813.3](#), [NP_005804.1](#)

RefSeq Size: 5907 bp

RefSeq ORF: 2673 bp

Locus ID: 23683

UniProt ID: [O94806](#)

Cytogenetics: 2p22.2

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

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene belongs to the multigene protein kinase D family of serine/threonine kinases, which bind diacylglycerol and phorbol esters. Members of this family are characterized by an N-terminal regulatory domain comprised of a tandem repeat of cysteine-rich zinc-finger motifs and a pleckstrin domain. The C-terminal region contains the catalytic domain and is distantly related to calcium-regulated kinases. Catalytic activity of this enzyme promotes its nuclear localization. This protein has been implicated in a variety of functions including negative regulation of human airway epithelial barrier formation, growth regulation of breast and prostate cancer cells, and vesicle trafficking. [provided by RefSeq, Jan 2015]