

Product datasheet for **SC126578**

Protein Kinase D2 (PRKD2) (NM_016457) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protein Kinase D2 (PRKD2) (NM_016457) Human Untagged Clone
Tag:	Tag Free
Symbol:	Protein Kinase D2
Synonyms:	HSPC187; nPKC-D2; PKD2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126578 sequence for NM_016457 edited (data generated by NextGen Sequencing)

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ATGGCCACCGCCCTTATCCCGCGGGCTCCCTGGCTCTCCCGGGCCGGGTCTCCT
CCGCCCCCGGGCCTAGAGCTGCAGTCGCCGCCACCGCTACTGCCCCAGATCCCGGCC
CCGGTTCCGGGGTCTCCTTTACATCCAGATCGGGTGACCCCGGAGTTCTGTCTGTTG
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CTCACGGTGACTIONCTATCGGGCGCTGCCTTCTGTGATCACTGCGGGGAGATGCTTTC
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GCAGCAGAGCATCCGCTGCCTGGGTCTGGGCTGCCACGGACAGGGATCTCGGTGGGGCC
TGTCACCACAGGACCACGACATGCAGGGGCTGGCGGAGCGCATCAGTGTCTCTGA

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Clone variation with respect to NM_016457.4

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_016457 unedited TAACCCCGCCCGTTGACGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGC AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGG AATTCGGCAGCAGCCTCCCCCATGGCCACCGCCCCCTTATCCCGCCGGGCTCCCTGG CTCTCCCGGGCCGGGTCTCTCCGCCCGCCCGGCCTAGAGCTGCAGTCGCCGCCACC GCTACTGCCAGATCCCGGCCCGGGTCCGGGGTCTCCTTTACATCCAGATCGGGCT GACCCGCGAGTTCGTGCTGTTGCCCGCCCTCCGAGCTGGCTCATGTGAAGCAGCTGGC CTGTTCCATCGTGACCAGAAGTCCCTGAGTGTGGCTTCTACGGCCTTTACGACAAGAT CCTGCTTTTCAAACATGACCCACGTCGGCCAACCTCCTGCAGCTGGTGCCTCGTCCGG AGACATCCAGGAGGGCGACCTGGTGGAGGTGGTGTGCGGCCTCGGCCACCTTCGAGGA CTTCCAGATCCGCCCGCACGNCCTACGGTGCCTCTATCGGGCGCCTGCCTTCTGTGA TCACTGCGNGAGATGCTCTTCGGCCTAGTGGCCAGGGCCTCAAGTGCATGGTGGCG GCTGAACACCACAAGCGCTGTGCCTTCAGCATCCCCAACAACTGTAGTGGGGCCCGCAN ACGGCGCCTGTATCCACGTCTCTGGCCAGTGCANCTCGTGGCCTCGGCACCTNCGA GTCCTGCCCTGCACGGTGAAGAGCTGAGCCGTAGCACCCACCGAACTNCNNTGCTCGC GTCCNCGTCATCCCTCTCTCTCTTCTGCCTCATCGGATACGGCCGCCCATGAGCTG GACCAGAGCTGCTCTCAAGGTCAAGTGCCGGACACCTTCTAATCC
Restriction Sites:	Please inquire
ACCN:	NM_016457
Insert Size:	3200 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:	<ol style="list-style-type: none"> 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:	<u>NM_016457.3</u> , <u>NP_057541.2</u>
RefSeq Size:	2883 bp
RefSeq ORF:	2637 bp
Locus ID:	25865
UniProt ID:	<u>Q9BZL6</u>
Cytogenetics:	19q13.32
Protein Families:	Druggable Genome, Protein Kinase

Gene Summary:

The protein encoded by this gene belongs to the protein kinase D (PKD) family of serine/threonine protein kinases. This kinase can be activated by phorbol esters as well as by gastrin via the cholecystokinin B receptor (CCKBR) in gastric cancer cells. It can bind to diacylglycerol (DAG) in the trans-Golgi network (TGN) and may regulate basolateral membrane protein exit from TGN. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, and 3 encode the same isoform (A).