

Product datasheet for **SC315827**

Protein Kinase D2 (PRKD2) (NM_001079882) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protein Kinase D2 (PRKD2) (NM_001079882) Human Untagged Clone
Tag:	Tag Free
Symbol:	Protein Kinase D2
Synonyms:	HSPC187; nPKC-D2; PKD2
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001079882, the custom clone sequence may differ by one or more nucleotides

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ATGCTCTTCGGCCTAGTGCGCCAGGGCCTCAAGTGCATGGCTGCGGGCTGAACTACCAC
AAGCGCTGTGCCTTCAGCATCCCCAACAACTGTAGTGGGGCCCGCAAACGGCGCCTGTCA
TCCACGTCTCTGGCCAGTGGCCACTCGGTGCGCCTCGGCACCTCCGAGTCCCTGCCCTGC
ACGGCTGAAGAGCTGAGCCGTAGCACCACCGAACTCCTGCCTGCGCGTCCCCCGTCATCC
TCTTCTCCTCTTCTGCCTCATCGTATACGGGGCCGCCCAATTGAGCTGGACAAGATGCTG
CTCTCCAAGGTCAAGGTGCCGCACACCTTCCCTCATCCACAGCTATACACGGCCACCGTT
TGCCAGGCTTGCAAGAACTCCTCAAGGCCTTCCGGCAGGGCCTGCAATGCAAAGAC
TGCAAGTTAACTGTACAAAACGCTGCGCCACCCGCGTCCCTAATGACTGCCTGGGGGAG
GCCCTTATCAATGGAGATGTGCCGATGGAGGAGGCCACCGATTTACAGCGAGGCTGACAAG
AGCGCCCTCATGGATGAGTCAGAGGACTCCGGTGTATCCCTGGCTCCCACTCAGAGAAT
GCGCTCCACGCCAGTGGAGGAGGAAGGCGAGGGAGGCAAGGCCAGAGCTCCCTGGGG
TACATCCCCCTAATGAGGGTGGTGAATCGGTGCGACACACGACGCGGAAATCCAGCACC
ACGCTGCGGGAGGGTTGGGTGGTTCATTACAGCAACAAGGACACGCTGAGAAAGCGGCAC
TATTGGCCCTGGACTGCAAGTGTATCACGCTCTTCCAGAACAACACGACCAACAGATAC
TATAAGGAAATTCGCTGTGAGAAATCCTCACGGTGGAGTCCGCCAGAACTTCAGCCTT
GTGCCCGCGGCACCAACCCACACTGCTTTGAGATCGTCACTGCCAATGCCACCTACTTC
GTGGGCGAGATGCCTGGCGGGACTCCGGGTGGGCAAGTGGGCAGGGGGCTGAGGCCGCC
CGGGGCTGGGAGACAGCCATCCGCCAGGCCCTGATGCCGTATCCTTCAGGACGCCACC
AGCGCCCCAGGCCACGCGCCCCACAGACAAGCTTCTGTGAGCATCTGTGTCCAACAGT
CAGATCCAAGAGAATGTGGACATTGCCACTGTCTACCAGATCTTCCCTGACGAAGTGCTG
GGCTCAGGGCAGTTTGGAGTGGTCTATGGAGAAAACACCGGAAGACAGGCCGGGACGTG
GCAGTTAAGGTCAATTGACAACTGCGCTTCCCTACCAAGCAGGAGGCCAGCTCCGGAAT
GAAGTGGCCATTCTGCAGAGCCTGCGGCATCCCGGATCGTGAACCTGGAGTGCATGTTT
GAGACGCCTGAGAAAGTGTGGTGGTATGGAGAAGCTGCATGGGGACATGTTGGAGATG
ATCCTGTCCAGTGAAGGGCCGGCTGCCTGAGCGCCTACCAAGTTCCTCATCACCCAG
ATCCTGGTGGCTTTGAGACCTTCACTTCAAGAACATTGTCCACTGTGACTTGAACCA
GAAAACGTGTTGCTGGCATCAGCAGACCCATTTCCCTCAGGTGAAGCTGTGTGACTTTGGC
TTTGCTCGCATCATCGGCGAGAAGTCGTTCCGCCGCTCAGTGGTGGGCACGCCGGCTAC
CTGGCACCCGAGGTGCTGCTCAACCAGGGCTACAACCGCTCGCTGGACATGTGGTCAGTG
GGCGTGATCATGTACGTACGCTCAGCGCACCTTCCCTTTCAACGAGGATGAGGACATC
AATGACCAGATCCAGAACGCCGCTTTCATGTACCCGGCCAGCCCTGGAGCCACATCTCA
GCTGGAGCCATTGACCTCATCAACAACCTGCTGCAGGTGAAGATGCGCAAACGCTACAGC
GTGGACAAATCTCTCAGCCACCCCTGGTTACAGGAGTACCAGACGTGGCTGGACCTCCGA
GAGCTGGAGGGGAAGATGGGAGAGCGATACATCACGCATGAGAGTGACGACGCGCGCTGG
GAGCAGTTTGACAGAGCATCCGCTGCCTGGGTCTGGGTGCCACGGACAGGGATCTC
GGTGGGGCCTGTCCACCACAGGACCACGACATGCAGGGGCTGGCGGAGCGCATCAGTGT
CTC
    
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Restriction Sites: Please inquire

ACCN: NM_001079882

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001079882.1, NP_001073351.1</u>
RefSeq Size:	2939 bp
RefSeq ORF:	2166 bp
Locus ID:	25865
UniProt ID:	<u>Q9BZL6</u>
Cytogenetics:	19q13.32
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (B) has a shorter N-terminus when compared to isoform A.</p>