

Product datasheet for **SC323600**

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-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323600 sequence for NM_016457 edited (data generated by NextGen Sequencing)

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ATGGCCACCGCCCTTATCCCGCGGGCTCCCTGGCTCTCCCGGGCCGGGTCTCCT
CCGCCCCCGCGGCCTAGAGCTGCAGTCGCCGCCACCGCTACTGCCCCAGATCCCGGCC
CCGGTTCCGGGGTCTCCTTTACATCCAGATCGGGTGACCCGCGAGTTCGTGCTGTTG
CCCGCCGCTCCGAGCTGGCTCATGTGAAGCAGCTGGCCTGTTCCATCGTGGACCAGAAG
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GTGGAGGTGGTGTGTCGGCCTCGGCCACCTTCGAGGACTTCCAGATCCGCCCGCACGCC
CTCACGGTGACTIONCTATCGGGCGCTGCCTTCTGTGATCACTGCGGGGAGATGCTTTC
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ATCCAGAACGCCCTTATGTACCCGGCCAGCCCTGGAGCCACATCTCAGCTGGAGCC
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TCTCTCAGCCACCCCTGGTTACAGGAGTACCAGACGTGGCTGGACCTCCGAGAGCTGGAG
GGGAAGATGGGAGAGCGATACATCACGCATGAGAGTGACGACGCGCGCTGGGAGCAGTTT
GCAGCAGAGCATCCGCTGCCTGGGTCTGGGCTGCCACGGACAGGGATCTCGGTGGGGCC
TGTCACCACAGGACCACGACATGCAGGGGCTGGCGGAGCGCATCAGTGTCTCTGA

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Clone variation with respect to NM_016457.4

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_016457 unedited ACCGCCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA ACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCAGAGCCTCCCCCATGGC CACCGCCCCCTCTATCCCGCCGGGCTCCCTGGCTCTCCCGGGCCGGGTCTCCTCCGCCCCCGGGCGG CTAGAGCTGCAGTCGCCGCCACCCTACTGCCAGATCCCGGCCCGGGTTCGGGGTCTCCTTTCACA TCCAGATCGGGCTGACCCGCGAGTTCGTGCTGTTGCCCGCCCTCCGAGCTGGGCTCATGTGAAGCAGC TGGCCTGTTCCCATCGTGGACCCAAAAGTCCCTGAAGTGTGGCTTTCTACGGCCTTACAACAAGATTC CTGGCTTTTTCAACATGGACCCCACTTCGGCCAACCTCCGGCACTGGGGCCCCCTCGTCCGAAAATTC CAGGAGGGCAAATGGGTGGGAGGGGGGGCTGTCGGCCCTCGGCCCTTCAGGACTCCCAAATCCCC CCCCCCCCCTCAGGGGCTTTCTATCGGGGCCCGGCCTTTGGGGTTTCTGGGCGGGGAAACGCTTT TTGGCCATTGCCCCGGGCCAATGTCCATTCTTCCGCTCAAAAACCTCAAACGCCTTGGGCTTTCA TCCCCACAACGTGGTGGGGGGGCCAAAAGGGGCCGTGATCTCCTTTTGTGGCCGGGGCTCGTGG GGCCCCCTGGCCTCTAGAACCTCGCGCGCAGCGGGTAAATATTTACCATAACCCACAAAACCTGCGG TGCCGGCCCCCAGACTCTTCTCCTTTGTGTGACATATAATAAGCCGCCCACTATAGTGAGAAGAA AGATGGTGTCTCTGAGCAGGAGGTGGACGCACTTTTTCTACTAGATATTATAGATCACAGTGT
Kinase Domain Sequence:	>SC323600 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation TGMTTGCAGTGTCTACCAGATCTCCCTGACGAAGTGTGGGCTCAGGGCAGTTGGAGTGGTCTATGGA GGAAAACACCGGAAGACAGGCCGGGACGTGGCAGTTATGGTCATTGACAAACTGCGCTTCCCTACCAAGC AGGAGAGCCAGCTCCGGAATGAAGTGGCCATTCTGCAGAGCTGCGGCATCCCGGGATCGTGAACCTGGA GTGCATGTTCGAGACGCCTGAGAAAAGTGTGTGGTGTGATGGAGAA
Restriction Sites:	Please inquire
ACCN:	NM_016457
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 kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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:	NM_016457.1 , NP_057541.1
RefSeq Size:	921 bp

RefSeq ORF:	921 bp
Locus ID:	25865
UniProt ID:	Q9BZL6
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 (1) represents the longest transcript. Variants 1, 2, and 3 encode the same isoform (A).</p>