

Product datasheet for **SC123549**

Protein Kinase D2 (PRKD2) (BC025307) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protein Kinase D2 (PRKD2) (BC025307) 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:

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>OriGene sequence for BC025307 edited
TGAAGAGCTGAGCCGTAGCACCACCGAACTCCTGCCTCGCCGTCCCCCGTCATCCTCTTC
CTCCTCTTCTGCCTCATCGTATACGGGCCGCCCATTTAGCTGGACAAGATGCTGCTCTC
CAAGGTCAAGGTGCCGCACACCTTCTCATCCACAGCTATACACGGCCACCGTTTGCCA
GGCTTGAAGAACTCCTCAAGGGCCTCTCCGGCAGGGCCTGCAATGCAAAGACTGCAA
GTTTAACTGTACAAAACGCTGCCACCCCGCTCCCTAATGACTGCCTGGGGGAGGCCCT
TATCAATGGAGATGTGCCGATTTCCAGCAGGCTGACAAGAGCGCCCTCATGGATGAGTCA
GAGGACTCCGGTGCATCCCTGGCTCCCACTCAGAGAATGCGCTCCACGCCAGTGAGGAG
GAGGAAGCGAGGGAGGCAAGGCCAGAGCTCCCTGGGGTACATCCCCCTAATGAGGGTG
GTGCAATCGGTGCGACACACGACGCGGAAATCCAGCACCACGCTGCGGGAGGGTTGGGTG
GTTATTACAGCAACAAGGACACGCTGAGAAAGCGGCACTATTGGCGCTGGACTGCAAG
TGTATCACGCTCTTCCAGAACAACAGCAACAGATACTATAAGGAAATTCGCTGTCA
GAAATCCTCACGGTGGAGTCCGCCAGAACTTCAGCCTTGTGCCGCCGGGCACCAACCA
CACTGCTTTGAGATCGTCACTGCCAATGCCACCTACTTCGTGGGGGAGATGCCTGGCGGG
ACTCCGGTGGGCAAGTGGGCAGGGGGCTGAGGCCGCCGGGGCTGGGAGACAGCCATC
CGCCAGGCCCTGATGCCCGTATCCTTCCAGGACGACCCAGCGCCACAGGCCACGCGCC
CACAGACAAGCTTCTCTGAGCATCTCTGTGTCCAACAGTCAGATCCAAGAGAATGTGGAC
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GTCTATGGAGGAAAACACCGGAAGACAGGCCGGGACGTGGCAGTTAAGGTCATTGACAAA
CTGCGCTTCCCTACCAAGCAGGAGAGCCAGCTCCGGAATGAAGTGGCCATTCTGCAGAGC
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GTGGTGTGAGAGAAGCTGCATGGGGACATGTTGGAGATGATCCTGTCCAGTGAGAAGGGC
CGGCTGCCTGAGCGCCTACCAAGTTCCTCATCACCCAGATCCTGGTGGCTTTGAGACAC
CTTCACTTCAAGAACATTGTCCACTGTGACTTGAACCAGAAAACGTGTTGCTGGCATCA
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AAGTCGTTCCGCCGCTCAGTGGTGGGCACGCCGCCCTACCTGGCACCCGAGGTGCTGCTC
AACCCAGGGCTACAACCGCTCGCTGGACATGTGGTCAAGTGGGCGTGATCATGTACGTCAGC
CTCAGCGGCACCTTCCCTTTCAACGAGGATGAGGACATCAATGACCAGATCCAGAACGCC
GCCTTCATGTACCCGCCAGCCCTGGAGCCACATCTCAGCTGGAGCCATTGACCTCATC
AACAACTGCTGCAGGTGAAGATGCGCAAACGCTACAGCGTGGACAAATCTCTCAGCCAC
CCCTGGTTACAGGAGTACCAGACGTGGCTGGACCTCCGAGAGCTGGAGGGGAAGATGGGA
GAGCGATACATCACGCATGAGAGTGACGACGCGCGCTGGGAGCAGTTTGCAGCAGAGCAT
CCGCTGCCTGGGTCTGGGCTGCCACGGACAGGGATCTCGGTGGGGCCTGTCCACCACAG
GACCACGACATGCAGGGGCTGGCGGAGCGCATCAGTGTCTCTGAGGTCTGTGCCCTCG
TCCAGCTGCTGCCCTCCACAGCGGTTCTTACAGGATCCCAGCAATGAACTGTTCTAGGG
AAAGTGGCTTCTGCCCAAACCTGGATGGACACGTGGGGAGTGGGGTGGGGGGAGCTATT
TCCAAGGCCCTCCCTGTTTCCCAGCAATTAACCGGACTCATCTCTGGCCCCATGGCC
TTGATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC025307 unedited TTTGGNNCCGTACAACATTTGTNATACCACTCACTATAGGGCGGCCGGAATTCGCACG GGTGAAGAGCTGAGCCGTAGCACCACCGAACTCCTGCCTCGCCGTCCTCCCGTCATCCTCT TCCTCCTCTTCTGCCTCATCGTATACGGGCCGCCCATTTAGCTGGACAAGATGCTGCTC TCCAAGGTCAAGGTGCCGCACACCTTCTCATCCACAGCTATACACGGCCACCGTTTGC CAGGCTTGCAAGAACTCCTCAAGGGCCTCTTCCGGCAGGGCCTGCAATGCAAAGACTGC AAGTTTAACTGTCACAAACGCTGCGCCACCCGCTCCCTAATGACTGCCTGGGGGAGGCC CTTATCAATGGAGATGTGCCGATTTTCAGCGAGGCTGACAAGAGCGCCCTCATGGATGAGT CAGAGGACTCCGGTGTCATCCCTGGCTCCCACTCAGAGAATGCGCTCCACGCCAGTGAGG AGGAGGAAGGCGAGGGAGGCAAGGCCAGAGCTCCCTGGGGTACATCCCCCTAATGAGGG TGGTGCAATCGGTGCGACACACGACGCGGAAATCCAGCACCACGCTGCGGGAGGGTTGGG TGGTTCATTACAGCAACAAGGACACGCTGAGAAAGCGGCACTATTGGCGCTGGACTGCA AGTGTATACGCTCTTCCAGAACAACACGACCAACAGATACTATAAGGAAATTCGCTGT CAGAAATCCTCAGGTGGAGTCCGCCAGAACTTCAGCCTTGTCGCGCCGGGCACCAACC CAACTGCTTTGAGATCGTCACTGCCNATGCCACCTACTTCGTGGGCGAGATGCCTGGCG GGACTCCGGGTGGGCCAGTGGGCAGGGG
Restriction Sites:	Please inquire
ACCN:	BC025307
Insert Size:	2199 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:	BC025307.1
RefSeq Size:	2199 bp
Locus ID:	25865
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]