

Product datasheet for **RC214956**

Protein Kinase D2 (PRKD2) (NM_001079882) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protein Kinase D2 (PRKD2) (NM_001079882) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Protein Kinase D2
Synonyms:	HSPC187; nPKC-D2; PKD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214956 representing NM_001079882
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCTTCGGCCTAGTGCGCCAGGCTCAAGTGCATGGCTGCGGGCTGAACTACCACAAGCGCTGTG
 CCTTCAGCATCCCAACAACACTGTAGTGGGGCCCGCAAACGGCGCCTGTATCCACGTCTCTGGCCAGTGG
 CCACTCGGTGCGCCTCGGCACCTCCGAGTCCCTGCCCTGCACGGCTGAAGAGCTGAGCCGTAGCACCACC
 GAACTCCTGCCTCGCGTCCCCGTATCCTCTTCTCCTCTTCTGCCTCATCGTATACGGGCGCCCA
 TTGAGCTGGACAAGATGCTGCTCTCAAGGTCAAGGTGCCGCACACCTTCTCATCCACAGCTATACAG
 GCCACCCTTTGCCAGGCTTGAAGAACTCCTCAAGGGCTCTTCCGGCAGGGCTGCAATGCAAAGAC
 TGCAAGTTAACTGTACAAACGCTGCCACCCCGCTCCCTAATGACTGCCTGGGGAGGCCCTTATCA
 ATGGAGATGTGCCGATGGAGGAGGCCACCGATTCAGCGAGGCTGACAAGAGCGCCCTCATGGATGAGTC
 AGAGGACTCCGGTGTATCCCTGGCTCCACTCAGAGAATGCGCTCCACGCCAGTGAGGAGGAGGAAGGC
 GAGGGAGGCAAGGCCAGAGCTCCCTGGGTACATCCCCCTAATGAGGGTGGTGAATCGGTGCGACACA
 CGACGCGGAAATCCAGCACACGCTGCGGGAGGGTTGGTGGTTCATTACAGCAACAAGGACACGCTGAG
 AAAGCGGCACTATTGGCGCTGGACTGCAAGTGTATCAGCTCTTCCAGAACAACACGACCAACAGATAC
 TATAAGGAAATCCGCTGTGAGAAATCCTCACGGTGGAGTCCGCCGAACTTCAGCCTTGTGCCCGCG
 GCACCAACCCACACTGCTTTGAGATCGTCACTGCCAATGCCACCTACTTCGTGGGCGAGATGCCTGGCGG
 GACTCCGGGTGGGCAAGTGGGCAGGGGCTGAGGCCGCCGGGGCTGGGAGACAGCCATCCGCCAGGCC
 CTGATGCCCGTATCCTTCAGGACGCACCCAGCGCCACAGGCCACGCGCCACAGACAAGCTTCTCTGA
 GCATCTGTGTCCAACAGTCAGATCCAAGAGAATGTGGACATTGCCACTGTCTACCAGATCTTCCCTGA
 CGAAGTGTGGGCTCAGGGCAGTTTGGAGTGGTCTATGGAGGAAAACACCGGAAGACAGGCCGGGACGTG
 GCAGTTAAGGTCAATTGACAAACTGCGCTTCCCTACCAAGCAGGAGAGCCAGCTCCGGAATGAAGTGCCA
 TTCTGCAGAGCCTGCGGCATCCCGGGATCGTGAACCTGGAGTGCATGTTGAGACGCTGAGAAAAGTGT
 TGTGGTATGGAGAAGCTGCATGGGGACATGTTGGAGATGATCCTGTCCAGTGAGAAGGGCCGGCTGCCT
 GAGCGCTCACCAAGTTCCTCATACCCAGATCCTGGTGGCTTTGAGACACCTTCACTTCAAGAATTG
 TCCACTGTGACTTGAACCCAGAAAACGTGTTGCTGGCATCAGCAGACCCATTTCTCAGGTGAAGCTGTG
 TGACTTTGGCTTTGCTCGCATCATCGGCGAGAAGTCGTTCCGCCGCTCAGTGGTGGGCACGCCGGCTAC
 CTGGCACCCGAGGTGCTGCTCAACCAGGGCTACAACCGCTCGCTGGACATGTGGTCAAGTGGCGGTGATCA
 TGTACGTCAGCCTCAGCGGCACCTTCCCTTTCAACGAGGATGAGGACATCAATGACCAGATCCAGAACGC
 CGCCTTATGTACCCGGCCAGCCCTGGAGCCACATCTCAGCTGGAGCCATTGACCTCATCAACAACCTG
 CTGAGGTGAAGATGCGCAAACGCTACAGCGTGGACAAATCTCTCAGCCACCCCTGGTTACAGGAGTACC
 AGACGTGGCTGGACCTCCGAGAGCTGGAGGGGAAGATGGGAGAGCGATACATCACGCATGAGAGTGACGA
 CGCGCGCTGGGAGCAGTTTGCAGCAGAGCATCCGCTGCCTGGGTCTGGGCTGCCACGGACAGGGATCTC
 GGTGGGGCCTGTCCACCACAGGACCACGACATGCAGGGGCTGGCGGAGCGCATCAGTGTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214956 representing NM_001079882
 Red=Cloning site Green=Tags(s)

MLFGLVRQGLKCDGCLNYHKRCAFSIPNNCSGARKRRLSSTSLASGHSVRLGTSESLPCTAEELSRSTT
 ELLPRRPPSSSSSSASSYTGRPIELDKMLLSKVVPHTFLIHSYTRPTVCQACKLLKGLFRQLQCKD
 CKFNCHKRCATRVPNDCLEALINGDVPMEEDDFSEADKSALMDESEDSGVIPGSHSENALHASEEEEEG
 EGGAQSSSLGYIPLMRVVQSVRHTTRKSSSTTLREGWVVHYSNKDTLRKRHYWRLDCKCITLTFQNNTTNR
 YKEIPLSEILTVESAQNFSLVPPGTNPHCFEIVTANATYFVGEPPGTPGGPSGQGAEAARGWETAIRQA
 LMPVILQDAPSAPGHAPHRQASLSISVSNSQIQENVDIATVYQIFPDEVLGSGQFGVVYGGKHKRKTGRDV
 AVKVIDKLRFPKQESQLRNEVAILQSLRHPGIVNLECMFETPEKVFVMEKHLHGDMLEMILSSEKGRLP
 ERLTKFLITQILVALRHLHFKNIVHCDLKPENLLASADFPQVKLCDFGFARIIGEKSFRRSVVGTTPAY
 LAPEVLLNQGYNRSLDMWSVGVIMYVSLSGTFPFNEDEDINDQIQNAAFMYPASPWSHISAGAIDLINNL
 LQVKMRKRYSDKSLSHPWLQEYQTWDLRELEGKMGERYITHESSDARWEQFAAEHPLPGSGLPTDRDL
 GGACPPQDHDMQGLAERISVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001079882

ORF Size: 2163 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001079882.1](#), [NP_001073351.1](#)

RefSeq Size: 2939 bp

RefSeq ORF: 2166 bp

Locus ID: 25865

UniProt ID: [Q9BZL6](#)

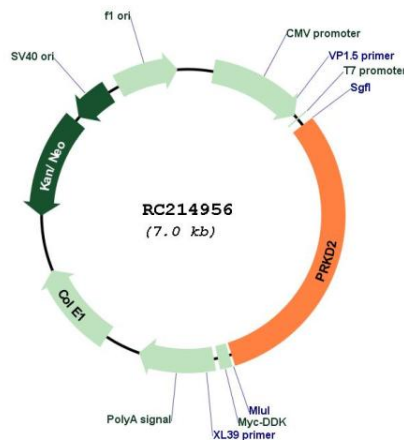
Cytogenetics: 19q13.32

Protein Families: Druggable Genome, Protein Kinase

MW: 79.9 kDa

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]

Product images:



Circular map for RC214956