OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG214956

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:	TurboGFP
Symbol:	Protein Kinase D2
Synonyms:	HSPC187; nPKC-D2; PKD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG214956 representing NM_001079882
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCTTCGGCCTAGTGCGCCAGGGCCTCAAGTGCGATGGCTGCGGGCTGAACTACCACAAGCGCTGTG
CCTTCAGCATCCCCAACAACTGTAGTGGGGCCCGCAAACGGCGCCTGTCATCCACGTCTCTGGCCAGTGG
CCACTCGGTGCGCCTCGGCACCTCCGAGTCCCTGCCCTGCACGGCTGAAGAGCTGAGCCGTAGCACCACC
GAACTCCTGCCTCGCCGTCCCCCGTCATCCTCTTCCTCCTCTTCTGCCTCATCGTATACGGGCCGCCCCA
TTGAGCTGGACAAGATGCTGCTCTCCAAGGTCAAGGTGCCGCACACCTTCCTCATCCACAGCTATACACG
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GAGGGAGGCAAGGCCCAGAGCTCCCTGGGGTACATCCCCCTAATGAGGGTGGTGCAATCGGTGCGACACA
CGACGCGGAAATCCAGCACCACGCTGCGGGAGGGTTGGGTGGTTCATTACAGCAACAAGGACACGCTGAG
AAAGCGGCACTATTGGCGCCTGGACTGCAAGTGTATCACGCTCTTCCAGAACAACACGACCAACAGATAC
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CGCCTTCATGTACCCGGCCAGCCCCTGGAGCCACATCTCAGCTGGAGCCATTGACCTCATCAACAACCTG
CTGCAGGTGAAGATGCGCAAACGCTACAGCGTGGACAAATCTCTCAGCCACCCCTGGTTACAGGAGTACC
AGACGTGGCTGGACCTCCGAGAGCTGGAGGGGAAGATGGGAGAGCGATACATCACGCATGAGAGTGACGA
CGCGCGCTGGGAGCAGTTTGCAGCAGAGCATCCGCTGCCTGGGTCTGGGCTGCCCACGGACAGGGATCTC
GGTGGGGCCTGTCCACCACAGGACCACGACATGCAGGGGCTGGCGGAGCGCATCAGTGTTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214956 representing NM_001079882
Red=Cloning site Green=Tags(s)

MLFGLVRQGLKCDGCGLNYHKRCAFSIPNNCSGARKRRLSSTSLASGHSVRLGTSESLPCTAEELSRSTT
ELLPRRPPSSSSSSSASSYTGRPIELDKMLLSKVKVPHTFLIHSYTRPTVCQACKKLLKGLFRQGLQCKD
CKFNCHKRCATRVPNDCLGEALINGDVPMEEATDFSEADKSALMDESEDSGVIPGSHSENALHASEEEEG
EGGKAQSSLGYIPLMRVVQSVRHTTRKSSTTLREGWVVHYSNKDTLRKRHYWRLDCKCITLFQNNTTNRY
YKEIPLSEILTVESAQNFSLVPPGTNPHCFEIVTANATYFVGEMPGGTPGGPSGQGAEAARGWETAIRQA
LMPVILQDAPSAPGHAPHRQASLSISVSNSQIQENVDIATVYQIFPDEVLGSGQFGVVYGGKHRKTGRDV
AVKVIDKLRFPTKQESQLRNEVAILQSLRHPGIVNLECMFETPEKVFVVMEKLHGDMLEMILSSEKGRLP
ERLTKFLITQILVALRHLHFKNIVHCDLKPENVLLASADPFPQVKLCDFGFARIIGEKSFRRSVVGTPAY
LAPEVLLNQGYNRSLDMWSVGVIMYVSLSGTFPFNEDEDINDQIQNAAFMYPASPWSHISAGAIDLINNL
LQVKMRKRYSVDKSLSHPWLQEYQTWLDLRELEGKMGERYITHESDDARWEQFAAEHPLPGSGLPTDRDL
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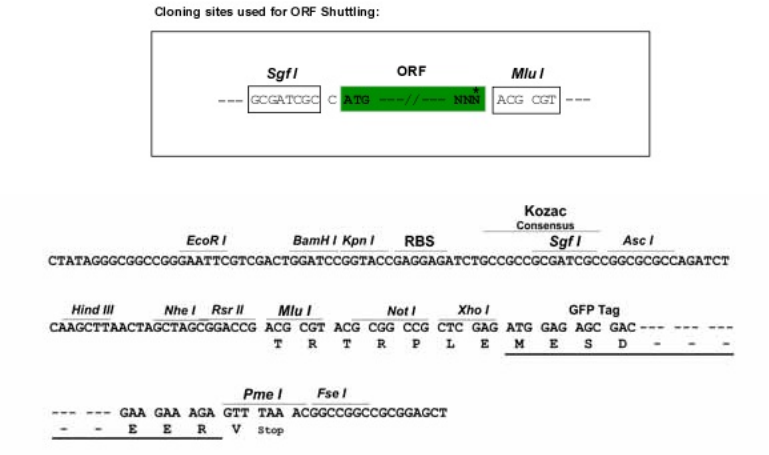
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

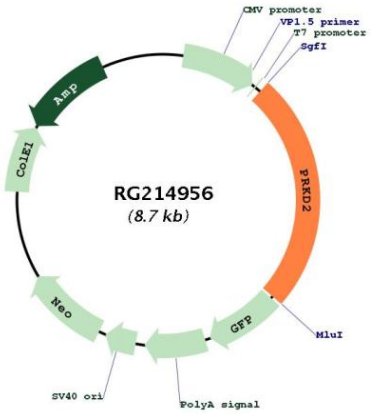
UniProt ID: Q9BZL6

Cytogenetics: 19q13.32

Protein Families: Druggable Genome, Protein Kinase

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 RG214956