

Product datasheet for **RC233826**

PDK2 (NM_001199899) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PDK2 (NM_001199899) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PDK2
Synonyms: PDHK2; PDKII
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233826 representing NM_001199899
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAAGAGATCAACCTGCTTCCCAGCGAGTCTGAGCACACCCTCCGTGCAGCTGGTGCAGAGCTGGT
ATGTCCAGAGCCTCCTGGACATCATGGAGTTCCTGGACAAGGATCCCAGGACCATCGCACCCCTGAGCCA
GTTCACTGACGCCCTGGTACCATCCGGAACCGGCACAACGACGTGGTGGCCACCATGGCACAAGGCGTG
CTTGAGTACAAGGACACCTACGGCGATGACCCCGTCTCCAACCAGAACATCCAGTACTTCTGGACCGCT
TCTACCTCAGCCGATCTCCATCCGATGCTCATCAACCAGCACACCCTCATCTTTGATGGCAGCACCAA
CCCAGCCCATCCAAACACATCGGCAGCATCGACCCCAACTGCAACGTCTCTGAGGTGGTCAAAGATGCC
TACGACATGGCTAAGCTCCTGTGTGACAAGTATTACATGGCCTCACCTGACCTGGAGATCCAGGAGATCA
ATGCAGCCAACCTCAAACAGCCGATTACATGGTCTACGTCCCCTCCCACCTCTACCACATGCTCTTTGA
GCTCTTCAAGAATGCCATGAGGGCGACTGTGAAAGCCATGAGTCCAGCCTCATTCTCCCACCCATCAAG
GTCATGGTGGCCTTGGGTGAGGAAGATCTGTCCATCAAGATGAGTGACCGAGGTGGGGTGTTCCTTGA
GGAAGATTGAGCGACTTTCAGCTACATGTACTCCACAGCACCCACCCCGCCTGGCACCGGGGGAAC
GCCGCTGGCTGGCTTTGGTTATGGGCTCCCCATTTCCCGCCTCTACGCCAAGTACTTCCAGGGAGACCTG
CAGCTCTTCTCCATGGAAGGCTTTGGGACCGATGCTGTCTATCTCAAGGCCCTGTCCACGGACTCGG
TGGAGCGCTGCCTGTCTACAACAAGTACGCCTGGCGCCACTACCAGACCATCCAGGAGCCGGCGACTG
GTGTGTGCCAGCACGGAGCCCAAGAACACGTCCACGTACCGCGTCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233826 representing NM_001199899
Red=Cloning site Green=Tags(s)

MKEINLLPDRVLSTPSVQLVQSWYVQSLLDIMEFLDKDPEDHRTLSQFTDALVTIRNRHNDVPTMAQGV
 LEYKDTYGGDPVSNQNIQYFLDRFYLSRISIRMLINQHTLIFDGSTNPAHPKHIGSIDPNCNVSEVVKDA
 YDMAKLLCDKYMASPDLEIQEINAANSKQPIHMVYVPSHLYHMLFELFKNAMRATVESHESSLILPPIK
 VMVALGEEDLSIKMSDRGGGVPLRKIERLFSYMYSTAPTPQPGTGGTPLAGFGYGLPISRLYAKYFQGD
 QLFMEGFGTDAVIYLKALSTDSVERLPVYNKSAWRHYQTIQEAGDWCVPSTEPKNTSTYRVS

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_001199899

ORF Size: 1029 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_001199899.1](#), [NP_001186828.1](#)

RefSeq Size: 2511 bp

RefSeq ORF: 1032 bp

Locus ID: 5164

UniProt ID: [Q15119](#)

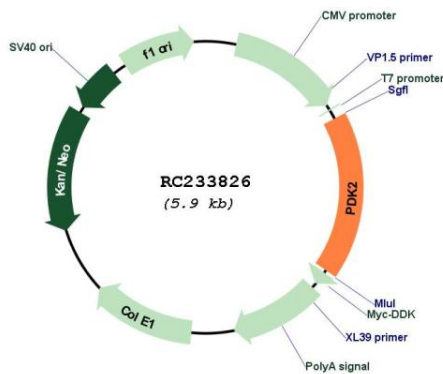
Cytogenetics: 17q21.33

Protein Families: Druggable Genome, Protein Kinase

MW: 39.3 kDa

Gene Summary: This gene encodes a member of the pyruvate dehydrogenase kinase family. The encoded protein phosphorylates pyruvate dehydrogenase, down-regulating the activity of the mitochondrial pyruvate dehydrogenase complex. Overexpression of this gene may play a role in both cancer and diabetes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RC233826