

Product datasheet for **RR209308**

Pdk2 (NM_030872) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pdk2 (NM_030872) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pdk2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209308 representing NM_030872
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCGCTGGTTCGGGCGCTGTTGAAGAATGCGTCCCTGGCAGGGGCGCCCAAGTACATCGAGCACTTCA
GCAAGTTCTCCCGTCCCGCTGTCCATGAAGCAGTTTCTAGACTTCGGATCCAGCAATGCCTGCGAGAA
AATTCATTACCTTCCCGGAGGAGCTGCCGTGCGCTGGCCAACATCATGAAAGAGATCAACCTG
CTTCTGACCGGGTGTGAGCACCCCTCAGTGAACCTGGTGCAGAGCTGGTATGTCAGAGTCTGCTGG
ACATCATGGAATTCCTGGACAAGGACCCGAGGACCACCGGACCCTAAGCCAGTTCACTGATGCCCTGGT
CACCATCCGGAACCGGCACAATGACGTAGTGCCACCATTGGCACAGGGAGTGTGGAGTACAAGGACACC
TATGGTATGACCCAGTCTCCAACCAGAACATCCAGTACTTTTTGGACCGCTTCTACCTCAGCCGCATCT
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CATTGGCAGCATTGATCCCAACTGCAGCGTGTCTGATGTGGTAAAGATGCCTATGACATGGCTAAGCTC
CTGTGTGACAAGTATTACATGGCTTCCCCTGACCTGGAGATCCAGGAAGTCAATGCCACCAACGCCACCC
AGCCATTACATGGTCTACGTCCCTCCACCTCTACCACATGCTCTTTGAACTCTTCAAGAATGCCAT
GGGGCCACAGTGGAAAGCCACGAGTCCAGCCTACTCTCCCTCCCATCAAATCATGGTGGCCCTCGGT
GAAGAAGATCTGTCCATCAAATGAGTGACCGAGGCGGGGTGTCCCCTTGAGGAAGATCGAGAGGCTCT
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GGCTTTGGGACAGATGCTGTCTATCTGAAGGCCCTGTCCACGGACTCAGTGGAGCGCCTGCCTGTCT
ACAACAAGTCTGCCTGGCGCCACTACCAGACATCCAGGAGGCCGGTACTGGTGCCTGCCAGCACAGA
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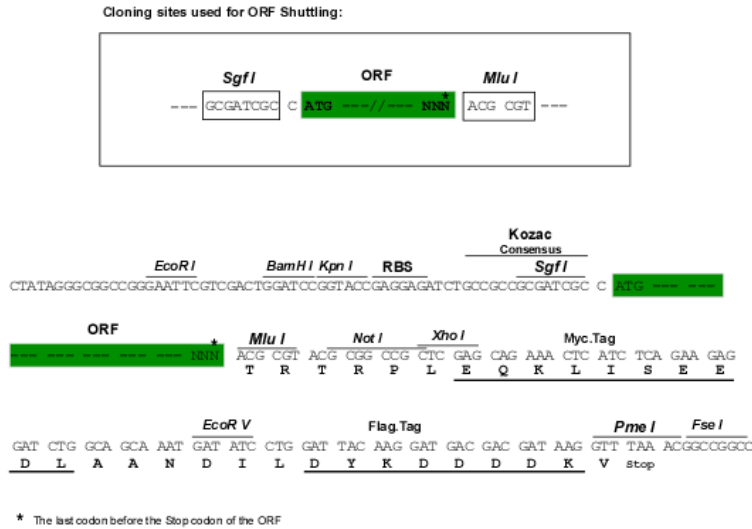
Protein Sequence: >RR209308 representing NM_030872
Red=Cloning site Green=Tags(s)

MRWFRALLKNASLAGAPKYIEHFSKFSPLSMKQFLDFGSSNACEKTSFTFLRQELPVRLANIMKEINL
 LPDRVLSTPSVQLVQSWYVQSLLDIMEFLDKDPEDHRTL S QFTDALVTIRNRHNDVVPTMAQGVLEYKDT
 YGDDPVSNQNIQYFLDRFYLSRISIRMLINQHTLIFDGSTNPAHPKHIGSIDPNCVSDVVKDAYDMAKL
 LCDKYMASPDLEIQEVNATNATQPIHMVYVPSHLYHMLFELFKNAMRATVESHESSLTLPPIKIMVALG
 EEDLSIKMSDRGGVPLRKIERLFSYMYSTAPTPOPGTGGTLAGFGYGLPISRLYAKYFQGLQLFSME
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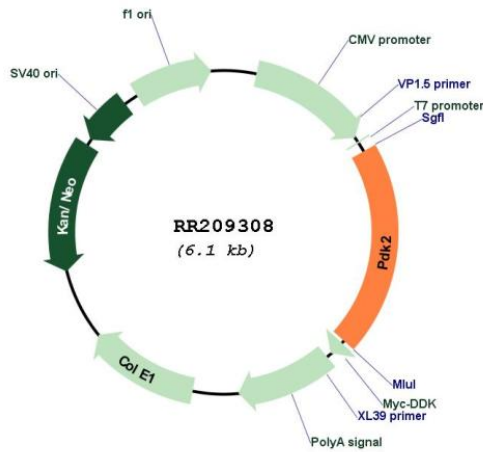
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_030872

ORF Size:	1221 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:	<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_030872.1 , NP_110499.1
RefSeq Size:	2207 bp
RefSeq ORF:	1224 bp
Locus ID:	81530
UniProt ID:	Q64536
Cytogenetics:	10q26
MW:	46.1 kDa
Gene Summary:	catalyzes the phosphorylation and inactivation of the pyruvate dehydrogenase complex; plays a role in the regulation of glucose oxidation [RGD, Feb 2006]