

Product datasheet for **RR205803**

Pdk4 (NM_053551) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pdk4 (NM_053551) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pdk4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205803 representing NM_053551
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCAGCCCGTTTCGTGATGCGCAGCGCCAGCTCGTGGGCAACGCCGCCTGGTCCCCAGGGAGG
TCGAGCTGTTCTCCCGCTACAGCCCGTCCCGCTGTCCATGAAGCAGCTGCTGGACTTCGGTTCAGAAAA
TGCTGTGAGAGAACTTTCTTTTCTTTTCTCGCAAGAATTGCCGTCAGACTTGCCAACATCCTGAAG
GAGATTGACATCCTCCCTGAACACTTAGTGAACACCCCTTCCGTCAGCTGGTGAAGAGCTGGTACATCC
AGAGCCTGATGGATTTAGTGGAGTTCACGAAAAGAGCCAGAAGACCAGAAAAGTTCTATCAGACTTTGT
AGACACGCTGGTCAAAGTTCGAAACAGACATCATAATGTGGTCCCTACGATGGCACAAGGGATCCTGGAG
TACAAAGACAACGACCCGTTGACCCCGTTACCAATCAAATCTTCAGTATTTTTGGACCGGTTTTATA
TGAACCGCATTCTACTCGGATGCTCATGAACCAGCACATCCTCATATTCAGTGACTCAAAGACAGGAAA
CCCAAGCCACATTGGGAGTATCGACCCCACTGCGATGTGGTAGCAGTAGTGAAGATGCCTTTGAGTGT
GCAAAGATGCTCTGCGATCAGTATTATCTAACGTCGCCAGAATTAAGCTCACACAAGTCAATGGAAAAAT
TTCCAGGCCAACCAATCCACATCGTGTAGTTCCTTCACACCTTACCACATGCTCTTTGAACTATTCAA
GAATGCCATGAGGCCACGGTCGAGCATCAAGAAAACCGCCTTTCTGACACCAGTCGAGGCCACCGTC
GTCTTGGGAAAAGAAGATCTTACAATCAAGATTTCTGACCGAGGTGGCGGTGTTCTCTGAGGATTA
ACCGCCTCTTTAGTTACACATACTCCAAGTCTCAACGCCTGTGATGGACAATTCACGGAATGCCCTTT
GGCTGGTTTTGGTTACGGCTTGGCGATTTCCCGTCTCTACGCCAAGTATTTCAAGGAGATCTGAATCTC
TATTCCATGTGAGGCTATGGGACAGATGCCATCATCTACTTAAAGGCTTTATCATCTGAGTCTATAGAAA
AACTCCCGCTCTTAAACAAGTCAGCCTTCAAACATTATCAGATGAGTTCTGAGGCTGATGACTGGTGTAT
CCCAAGTAAGGAACCAAGAATCTGTGCAAGGAGAACTGGCAGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205803 representing NM_053551
Red=Cloning site Green=Tags(s)

MKAARFVMRSASSLGNAGLVPREVELFSRYSPSPLSMKQLDFGSENACERTSFSFLRQELPVRLANILK
 EIDILPEHLVNTPSVQLVKSQYIQLMDLVEFHEKSPEDQKVLSDFDVTLVKVRNRHNVPTMAQGILE
 YKDNCTVDPVTNQNLQYFLDRFYMNRISTRMLMNQHILIFSDSKTGNPSHIGSIDPNCDDVVAVVEDAFEC
 AKMLCDQYYLTSPCLKLTVQNGKFPQPQIHIIVYVPSHLHHMLFELFKNAMRATVEHQENRPFLLTPVEATV
 VLGKEDLTIKISDRGGVPLRITDRLFSYTYSTAPTVMDSNRNAPLAGFGYGLPISRLYAKYFQGDNLN
 YMSGYGTDAIIYLKALSSESIEKLPVFNKSAFKHYQMSSEADDWCIPSKEPKNLKKEKLAV

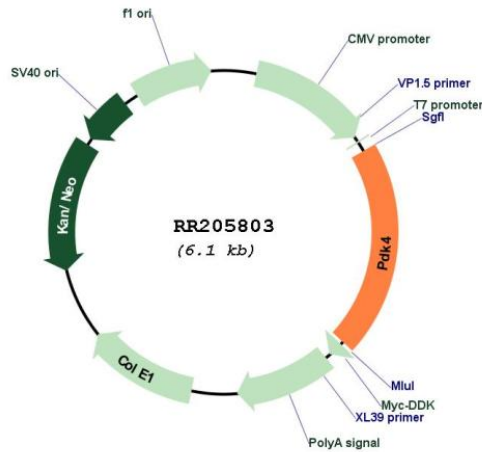
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053551

ORF Size:	1236 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_053551.1 , NP_446003.1
RefSeq Size:	1435 bp
RefSeq ORF:	1239 bp
Locus ID:	89813
UniProt ID:	O54937
Cytogenetics:	4q13
MW:	46.7 kDa
Gene Summary:	mediates glucose oxidation through inhibitory phosphorylation of the pyruvate dehydrogenase complex (PDC) [RGD, Feb 2006]