

Product datasheet for **MC200607**

Pdk3 (NM_145630) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdk3 (NM_145630) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pdk3
Synonyms:	2610001M10Rik; AI035637
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC008126 sequence for NM_145630
 CGAGCAGCTGCTGGCGCCAAGGCCGAGCCCCAGGTAGAGGTAAAGCCCCCGCGGCCGCTCCTCCTCG
 CGGCTAGGCGGCGGTGACCGCCTCGGCTCCGGACGGCTCGGCGGATCTGCACACTGCTCTAGTG
 AGGATGCGGCTCTTCTACCGGCTGCTCAAGCAGCCGGTCCCCAAGCAGATCGAGCGCTACTCCCGTTCT
 CCCCCTGCCACTGTCTATCAAACAGTTCCTGGACTTCGGAAGGGATAATGCATGTGAAAAAATCCTA
 TATGTTTCTGCGCAAGGAATTCCTGTGCGACTGGCTAACACCATGAGAGAGGTTAATCTCTTGCCGGAT
 AACTTGTGAACCGCCCTCCGTGGGATTAGTTCAGAGCTGGTACATGCAGAGCTTCCTGAACTTTAG
 AATATGAAAAACAAGAGCCAGAAGACCCAGAGTTTTGGATAACTTTCTCAACGTTCTGATAAATATCAG
 AAACAGACACAATGATGTTGTTCCCTACAATGGCCCAAGCGTGATTGAGTACAAGGAAAAGTTCCGGTTT
 GATCCGTTCAATTAGCAGTAACATTCAATATTTCTGGATCGGTTTTATACCAACCGCATTCTTTCCGCA
 TGCTTATTAACCAGCACACACTTCTGTTTGGTGGTACACTAACCTGCACATCCGAAACATATAGGGAG
 TATCGACCCACCTGTAATGTAGCTGATGTGGTTAAAGATGCATATGAAACAGCCAAGATGCTTTGTGAA
 CAGTATTACCTGGTAGCTCCAGAGCTAGAAGTTGAAGAATCAATGCCAAAGCGCCAAACAAACCCATTC
 AGGTAGTTTATGTCCGTCACATCTGTTTACATGCTATTTGAGCTGTTCAAGAACTCAATGAGGGCAAC
 AGTTGAACTACATGAAGATAAAAAAGAAGGCTACCCAGCTGTTAAACTCTCGTTACTCTGGGTAAGAA
 GACTTGTCCATTAAGATAAGTGACCTAGGTGGTGGAGTCCCACTTCGAAAAATAGACCGTCTTTTAACT
 ACATGTACTCAACTGCTCCTCGTCCCAGCCTGGAGCCTACAAGAGCGCGCCCTTGGCTGGATTTGGTTA
 TGGCTTGCCAATTTCTCGTCTGTATGCCAGATATTTTCAGGGAGATCTAAAAGTATTCCATGGAAGGA
 GTGGGTACCGATGCAGTCATTTATTTGAAGGCCCTTCAAGTGAATCCTTTGAGAGGCTGCCAGTTTTCA
 ATAAGTCTGCATGGCGCCATTACAAGACCCTCTGAAGCTGATGACTGGAGCAATCCCAGCAGTGAACC
 AAGGGATGCATCAAAATACAAGGCTAAACAGGACAAGATCAAGAGTAATAGAAGTTTCTAGAAAGCTGAG
 TGCTGTCTCTGAAGTCTCTGAAGAAAGAATACCTTCTGCAAGTCAACCAGAGACGCGTATTTCTACCAAC
 TCTTAACCGTGACGGCACTATTGTTATCCCAATGCTTAGTTGCTTTCTTTATAATGGCTCACTGTGTCCA
 TGGAGCCCTTCCCATAGTCTTTCCATTGTATCTTCCACTAAAGCTTGAGCAATTTTTCATTGTGCTTGT
 CTGTGGCATCATTAGCACCCGTACAAAAGAGCACAGAACCTCCTAGCGCTTGTACCCTATATTCTGT
 ATCTTGTATGGAGTTTGTGTCTGAAGTCTTCCAGCATTCTGAGCTCATTCTGATACAAACCTCCAGC
 TAGGGCTTGGGCAGTCGGATGCATCAGTGGAGCTCATCTTGAAAATTAAGTACCAGGGTTCTTCTGTCC
 CATATACATACCCTTCACTCTCTGATTTGGACCTTTGTGCCCTTTCAGCTGACTGGGTTCTCATTGTG
 AGGTGTGGTACTTGGATGTTAGAACCTGTCCATCTGTTTCAATTTTAAAGTTCATTGTCTACTT
 CTGTTCCATTGATTAAGCACTTAAACGTTGTCTTGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_145630

Insert Size: 1248 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC008126](#), [AAH08126](#)

RefSeq Size: 2015 bp

RefSeq ORF: 1248 bp

Locus ID: 236900

UniProt ID: [Q922H2](#)

Cytogenetics: X C3

Gene Summary: Inhibits pyruvate dehydrogenase activity by phosphorylation of the E1 subunit PDHA1, and thereby regulates glucose metabolism and aerobic respiration. Can also phosphorylate PDHA2. Decreases glucose utilization and increases fat metabolism in response to prolonged fasting, and as adaptation to a high-fat diet. Plays a role in glucose homeostasis and in maintaining normal blood glucose levels in function of nutrient levels and under starvation. Plays a role in the generation of reactive oxygen species (By similarity).[UniProtKB/Swiss-Prot Function]