

Product datasheet for SC118540

PDK2 (NM_002611) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDK2 (NM_002611) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDK2
Synonyms:	PDHK2; PDKII
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002611 edited
 ATGCGCTGGGTGTGGGCGCTGCTGAAGAATGCGTCCCTGGCAGGGGCGCCCAAGTACATA
 GAGCACTTCAGCAAGTTCTCCCCGTCCCCGTGTCATGAAGCAGTTTCTGGACTTCGGA
 TCCAGCAATGCCTGTGAGAAAACCTCCTTCACCTTCTCAGGCAGGAGCTGCCTGTGCGC
 CTGGCCAACATCATGAAAGAGATCAACCTGCTTCCCGACCGAGTCTGAGCACACCTCC
 GTGCAGCTGGTGCAGAGCTGGTATGTCCAGAGCCTCCTGGACATCATGGAGTTCTGGAC
 AAGGATCCCGAGGACCATCGCACCTGAGCCAGTTCAGTACGCCCTGGTACCATCCGG
 AACCGGCACAACGACGTGGTGGCCACCATGGCACAAGGCGTGCTTGAGTACAAGGACACC
 TACGGCGATGACCCCGTCTCCAACCAGAACATCCAGTACTTCTGGACCGCTTCTACCTC
 AGCCGCATCTCCATCCGCATGCTCATCAACCAGCACACCCTCATCTTTGATGGCAGCACC
 AACCCAGCCCATCCAAACACATCGGCAGCATCGACCCAACTGCAACGTCTCTGAGGTG
 GTCAAAGATGCCTACGACATGGCTAAGCTCCTGTGTGACAAGTATTACATGGCCTCACCT
 GACCTGGAGATCCAGGAGATCAATGCAGCCAACCTCCAAACAGCCGATTACATGGTCTAC
 GTCCCCTCCCACCTCTACCACATGCTCTTTGAGCTCTTCAAGAATGCCATGAGGGCGACT
 GTGGAAAGCCATGAGTCCAGCCTCATTCTCCACCCATCAAGGTGATGGTGGCCTTGGGT
 GAGGAAGATCTGTCCATCAAGATGAGTGACCGAGGTGGGGGTGTTCCCTTGAGGAAGATT
 GAGCGACTCTTCAGCTACATGTAATCCACAGCACCCACCCCGAGCCTGGCACCGGGGGA
 ACGCCGCTGGCTGGCTTTGGTTATGGGCTCCCCATTTCCCGCCTCTACGCCAAGTACTTC
 CAGGGAGACCTGCAGCTTCTCCATGGAAGGCTTTGGGACCGATGCTGTCATCTATCTC
 AAGGCCCTGTCCACGGACTCGGTGGAGCGCCTGCCTGTCTACAACAAGTACGCCTGGCGC
 CACTACCAGACCATCCAGGAGGCCGCGACTGGTGTGTGCCAGCACGGACCCCAAGAAC
 ACGTCCACGTACCGCTCAGCTAA



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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002611 unedited
GCATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCGCAGCCATGCGCT
GGTGTGGGGCGCTGCTGAAGATGCGTCCCTGGCAGGGGCGCCAAAGTACATAGAGCACTT
CAGCAAGTTCTCCCCGTCGCCGTGTCATGAAGCAGTTTCTGGACTTCGGATCCAGCAA
TGCCTGTGAGAAAACCTCCTTACCTTCCCTCAGGCAGGAGCTGCCTGTGCGCCTGGCCAA
CATCATGAAAGAGATCAACCTGCTTCCCGACCGAGTGTGAGCACACCCTCCGTGCAGCT
GGTGCAGAGCTGGTATGTCCAGAGCCTCCTGGACATCATGGAGTTCCTGGACAAGGATCC
CGAGGACCATCGCACCTGAGCCAGTTCACTGACGCCCTGGTCAACATCCGGAACCGGCA
CAACGACGTGGTCCCAACCATGGCACAAGGCGTCTTGAGTACAAGGACACCTACGGCGA
TGACCCCGTCTCCAACCAGAACATCCAGTACTTCTGGACCGCTTCTACCTCAGCCGCAT
CTCCATCCGCATGCTCATCAACCAGCACACCCTCATCTTTGATGGCAGCACCAACCCAGC
CCATCCAAAACACATCGGCAGCATCGACCCCAACTGCAACGTCTCTGAGGTGGTCAAAGA
TGCCTACGACATGGCTAAGCTCCTGTGTGACAAGTATTACATGGCCTCACCTGACCTGNA
GATCCAGGAGATCAATGCAGCCAACTCAAACAGCCGATTACATGGTCTACGTCCCCT
CCACCTTACCACATGCTCTTTGAGCTTTCAGAAATGCCCTGAGGGCGACTGTGAAAGC
CATGAGTCCAGCCTCATTCTCCACCATCAAGTATGGTCCCTTGGTGAGGAAAGACTG
TCCATCAGATATGACGAGGNGGGTGGTCCCTGAGGAGATGACCATCTCACCTN
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_002611 unedited
TATGAACCGCGGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTCTCATTCACT
CTCCTCTTACTGTGGGTGTGGGTGTCCTGTCCTGCCACAGCCACTGGGAGGGACACA
CAGCTTTAACCCCTGTGTCTTAGGGGAAGGGTGGGGCATTGAGGTTATAAACTAAC
TATATACACAGAAGTCTTAGGGAGAAAGCCACCCTGAGCACACATGTCTGGGCACAGT
GGGGCTGGGGGCTGGAGCTCAGGCAGGATGGACTAGGCTTGTGGAGGATCGGGTGGGCAT
GAGCATGTGAGGACATGCTGGGAGGGCTCAGGAGGTGGCACAGACATTGCCAAGGCCACT
GCAGGGCCTCGAGCAGCTTGGCTGGATGGCAAGCTCTCGGTCTAACAAGGTTCTTCCACT
TTAGAGTTGGGCCTGTGAGAGCCACCCCTCCGCCACCGACCTTCAAGCCCTGAGCGGA
GGGAGAGGCTGCAGGACCAGCCTCATTCCCCTCACGGGTGTAACCTCTTTCCCCTC
AGTCCCAGGTCTGGAGGGCACCCCTCTTCTAACACTTCAGCAGACCAAGGCCAGG
GTGCCTTTGTGGCTGGGGGAATAAGGGCACGGGACATCCACTTGAAGGCCTGTGCTGT
GGAGGGTGTGAGGGGGACCCAGTACCCTGGCAGAAAAGTGACAGCCCTGGTCTCAGAG
AGGAGGACTGCCATGGGATAATGTCTCTGGGACACCCATCAGGGTGGAGACATCCCTAA
CCCTCAGGCATTCGCCACAGAGATAAGGNAGCCACCNGAGGGTCTNCCANAAGAGGACTG
CCCTTAGGGACCTCACAGACCTTACCAGCAATGACTCCATATAACAAAACCTGGCATCAG
GAAAACCCACCCCTGCTCCCCAGTAGATGGTGGAGGGCACACGTGGGGGACCAAGCGG
CATTCCGTCTTTTAGGGCAAAA
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Restriction Sites:

NotI-NotI

ACCN:

NM_002611

Insert Size:

2320 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_002611.3 , NP_002602.2
RefSeq Size:	2319 bp
RefSeq ORF:	1224 bp
Locus ID:	5164
UniProt ID:	Q15119
Cytogenetics:	17q21.33
Domains:	HATPase_c
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>