

Product datasheet for **SC334402**

PDK2 (NM_001199900) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDK2 (NM_001199900) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDK2
Synonyms:	PDHK2; PDKII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001199900, the custom clone sequence may differ by one or more nucleotides

ATGCGCTGGGTGTGGGCGCTGCTGAAGAATGCGTCCCTGGCAGGGGCGCCCAAGTACATAGAGCACTTCA
 GCAAGTTCTCCCCGTCCCCGCTGTCCATGAAGCAGTTTCTGGACTTCGGATCCAGCAATGCCTGTGAGAA
 AACCTCCTTCACCTTCTCAGGCAGGAGCTGCCTGTGCGCCTGGCCAACATCATGAAAGAGATCAACCTG
 CTTCCCGACCGAGTGCTGAGCACACCCTCCGTGCAGCTGGTGCAGAGCTGGTATGTCCAGAGCCTCCTGG
 ACATCATGGAGTTCCTGGACAAGGATCCCGAGGACCATCGCACCTGAGCCAGTTCACTGACGCCCTGGT
 CACCATCCGGAACCGGCACAACGACGTGGTGCCACCATGGCACAAGGCGTGCTTGAGTACAAGGACACC
 TACGGCGATGACCCCGTCTCCAACCAGAACATCCAGTACTTCTGGACCGCTTCTACCTCAGCCGCATCT
 CCATCCGCATGCTCATCAACCAGCACAGTGGGTGCCGGCCACAGCGGCGGGGAGCGGGCGGTGGGGGGGG
 CGGTGCTGGGGCCAGGGCCGGGCTGCTGAGGGGACCTAG

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001199900
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).


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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_001199900.1, NP_001186829.1

RefSeq Size: 987 bp

RefSeq ORF: 600 bp

Locus ID: 5164

Cytogenetics: 17q21.33

Protein Families: Druggable Genome, Protein Kinase

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]

Transcript Variant: This variant (4) lacks a splice site in the 3' coding region, compared to variant 1. This results in a shorter protein with a distinct C-terminus (isoform 3), compared to 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.