

## Product datasheet for **SC331392**

### **PDK2 (NM\_001199899) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PDK2 (NM\_001199899) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PDK2  
**Synonyms:** PDHK2; PDKII  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331392 representing NM\_001199899.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGAAAGAGATCAACCTGCTTCCCGACCGAGTGCTGAGCACACCCTCCGTGCAGCTGGTGCAGAGCTGG
TATGTCCAGAGCCTCCTGGACATCATGGAGTTCCTGGACAAGGATCCCGAGGACCATCGCACCCCTGAGC
CAGTTCAGTACGCCCTGGTCCACATCCGGAACCGGCACAACGACGTGGTCCCACCATGGCACAAGGC
GTGCTTGAGTACAAGGACACCTACGGCGATGACCCCGTCTCAACCAGAACATCCAGTACTTCTGGAC
CGCTTCTACCTCAGCCGATCTCCATCCGATGCTCATCAACCAGCACACCCTCATTTTGTATGGCAGC
ACCAACCAGCCATCCCAAACACATCGGCAGCATCGACCCCAACTGCAACGTCTCTGAGGTGGTCAAA
GATGCCTACGACATGGCTAAGCTCCTGTGTGACAAGTATTACATGGCCTCACCTGACCTGGAGATCCAG
GAGATCAATGCAGCCAACTCAAACAGCCGATTACATGGTCTACGTCCCCTCCCACCTCTACCACATG
CTCTTTGAGCTCTTCAAGAATGCCATGAGGGCGACTGTGGAAAGCCATGAGTCCAGCCTCATTCTCCCA
CCCATCAAGGTGATGGTGGCCTTGGGTGAGGAAGATCTGTCCATCAAGATGAGTGACCGAGGTGGGGGT
GTTCCCTTGAGGAAGATTGAGCGACTCTCAGTACATGTACTCCACAGCACCCACCCCGCCTGGC
ACCGGGGAACCGCGCTGGCTGGCTTTGGTTATGGGCTCCCCATTTCCCGCCTCTACGCCAAGTACTTC
CAGGGAGACCTGCAGCTCTTCCATGGAAGGCTTTGGGACCGATGCTGTATCTATCTCAAGGCCCTG
TCCACGGACTCGGTGGAGCGCCTGCCTGTCTACAACAAGTCAGCCTGGCGCCACTACCAGACCATCCAG
GAGGCCGCGACTGGTGTGTGCCAGCACGGAGCCCAAGAACACGTCCAGTACCGGTACAGCTAA
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001199899  
**Insert Size:** 1032 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).



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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\\_001199899.1](#)

**RefSeq Size:** 2511 bp

**RefSeq ORF:** 1032 bp

**Locus ID:** 5164

**UniProt ID:** [Q15119](#)

**Cytogenetics:** 17q21.33

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 38.9 kDa

**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 (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Variants 2 and 3 encode the same isoform (2).