

## Product datasheet for **RC227065L3V**

### **PDK3 (NM\_001142386) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

|                                  |  |
|----------------------------------|--|
| <b>Product Type:</b>             | Lentiviral Particles   |
| <b>Product Name:</b>             | PDK3 (NM_001142386) Human Tagged ORF Clone Lentiviral Particle   |
| <b>Symbol:</b>                   | PDK3   |
| <b>Synonyms:</b>                 | CMTX6; GS1-358P8.4   |
| <b>Mammalian Cell Selection:</b> | Puromycin  |
| <b>Vector:</b>                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| <b>Tag:</b>                      | Myc-DDK  |
| <b>ACCN:</b>                     | NM_001142386   |
| <b>ORF Size:</b>                 | 1245 bp  |
| <b>ORF Nucleotide Sequence:</b>  | The ORF insert of this clone is exactly the same as(RC227065).   |
| <b>OTI Disclaimer:</b>           | 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. <a href="#">More info</a> |
| <b>OTI Annotation:</b>           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>RefSeq:</b>                   | <a href="#">NM_001142386.1</a>   |
| <b>RefSeq ORF:</b>               | 1248 bp  |
| <b>Locus ID:</b>                 | 5165   |
| <b>UniProt ID:</b>               | <a href="#">Q15120</a>   |
| <b>Cytogenetics:</b>             | Xp22.11  |
| <b>Protein Families:</b>         | Druggable Genome, Protein Kinase   |
| <b>MW:</b>                       | 47.9 kDa   |



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**Gene Summary:**

The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO<sub>2</sub>. It provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle, and thus is one of the major enzymes responsible for the regulation of glucose metabolism. The enzymatic activity of PDH is regulated by a phosphorylation/dephosphorylation cycle, and phosphorylation results in inactivation of PDH. The protein encoded by this gene is one of the three pyruvate dehydrogenase kinases that inhibits the PDH complex by phosphorylation of the E1 alpha subunit. This gene is predominantly expressed in the heart and skeletal muscles. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]