

Product datasheet for **RG236508**

PDK2 (NM_001199900) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PDK2 (NM_001199900) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PDK2
Synonyms: PDHK2; PDKII
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236508 representing NM_001199900.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGCTGGGTGTGGGCGCTGCTGAAGAATGCGTCCCTGGCAGGGGCGCCCAAGTACATAGAGCACTTC
AGCAAGTTCTCCCGTCCCGCTGTCCATGAAGCAGTTTCTGGACTTCGGATCCAGCAATGCCTGTGAG
AAAACCTCCTCACCTTCTCAGGCAGGAGCTGCCTGTGCGCCTGGCCAACATCATGAAAGAGATCAAC
CTGCTCCCGACCGAGTGTGAGCACACCCTCCGTGCAGCTGGTGCAGAGCTGGTATGTCCAGAGCCTC
CTGGACATCATGGAGTTCTGGACAAGGATCCCGAGGACCATCGCACCTGAGCCAGTTCCTACTGACGCC
CTGGTACCATCCGGAACCGGCACAACGACGTGGTGGCCACCATGGCACAAGGCGTCTTGAGTACAAG
GACACCTACGGCGATGACCCCGTCTCAACCAGAACATCCAGTACTTCTGGACCGCTTCTACCTCAGC
CGCATCTCCATCCGATGCTCATCAACCAGCACAGTGGGTGCCGCCACAGCGGGCGGGGAGCGGGCGGT
GGGGGGGGCGGTGCTGGGGCCAGGGCCGGGCTGCTGAGGGGACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

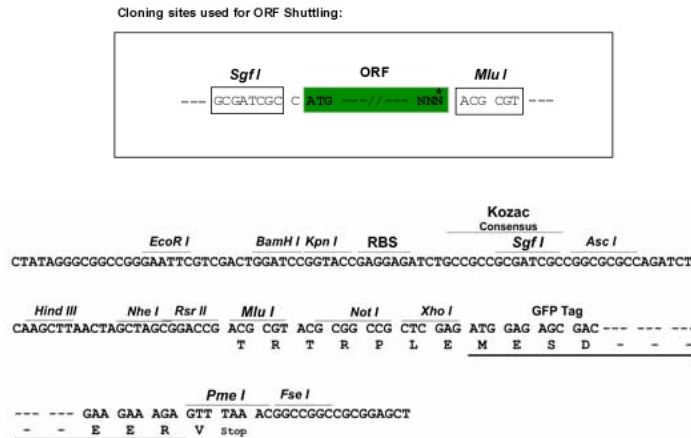
Protein Sequence: >Peptide sequence encoded by RG236508
Blue=ORF Red=Cloning site Green=Tag(s)

```
MRVWALLKNASLAGAPKYIEHFSKFSPLSMKQFLDFGSSNACEKTSFTFLRQELPVRLANIMKEIN
LLPDRVLSTPSVQLVQSWYVQSLLDIMEFLDKDPEDHRTLSQFTDALVTIRNRHNDVPTMAQGVLEYK
DTYGDDPVSQNIQYFLDRFYLSRISIRMLINQHSGRPQRRGAGGGGGGAGAQQRAAEGT
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

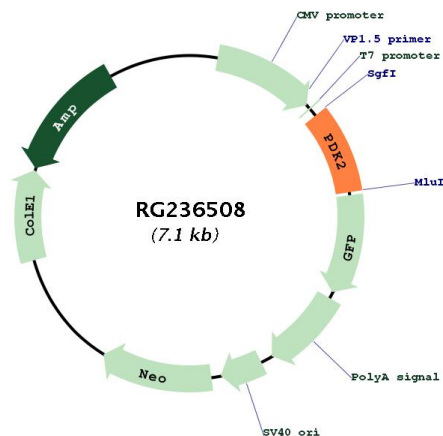
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001199900

ORF Size: 597 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

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

MW: 22.8 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]