OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC236508

PDK2 (NM_001199900) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDK2 (NM_001199900) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDK2
Synonyms:	PDHK2; PDKII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236508 representing NM_001199900 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCGCTGGGTGTGGGCGCTGCTGAAGAATGCGTCCCTGGCAGGGGCGCCCAAGTACATAGAGCACTTCA GCAAGTTCTCCCCGTCCCCGCTGTCCATGAAGCAGTTTCTGGACTTCGGATCCAGCAATGCCTGTGAGAA AACCTCCTTCACCTTCCTCAGGCAGGAGCTGCCTGTGCGCCTGGCCAACATCATGAAAGAGATCAACCTG CTTCCCGACCGAGTGCTGAGCACACCCTCCGTGCAGCTGGTGCAGAGCTGGTATGTCCAGAGCCTCCTGG ACATCATGGAGTTCCTGGACAAGGATCCCGAGGACCATCGCACCCTGAGCCAGTTCACTGACGCCCTGGT CACCATCCGGAACCGGCACAACGACGTGGTGCCCACCATGGCACAAGGCGTGCTTGAGTACAAGGACACC TACGGCGATGACCCCGTCTCCAACCAGAACATCCAGTACTTCCTGGACCGCTTCTACCTCAGCCGCATCT CCATCCGCATGCTCATCAACCAGCACAGTGGGTGCCGGCCACAGCGGCGGGGAGCGGGCGGTGGGGGGGG CGGTGCTGGGGCCCAGGGCCGGGCTGCTGAGGGGACC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC236508 representing NM_001199900 Red=Cloning site Green=Tags(s) MRWVWALLKNASLAGAPKYIEHFSKFSPSPLSMKQFLDFGSSNACEKTSFTFLRQELPVRLANIMKEINL LPDRVLSTPSVQLVQSWYVQSLLDIMEFLDKDPEDHRTLSQFTDALVTIRNRHNDVVPTMAQGVLEYKDT YGDDPVSNQNIQYFLDRFYLSRISIRMLINQHSGCRPQRRGAGGGGGGAGAQGRAAEGT TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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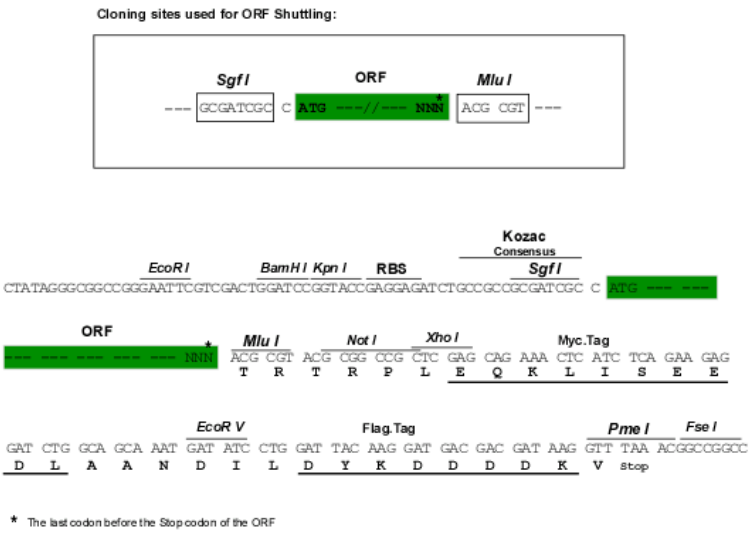
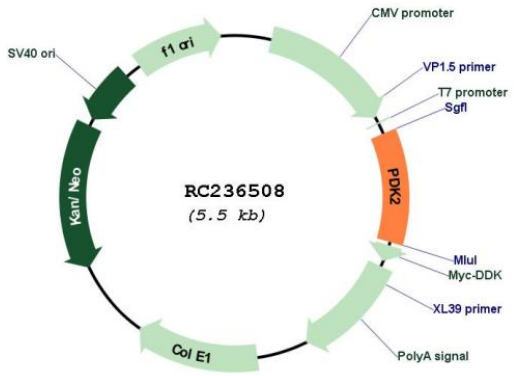
Cloning Scheme:



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).

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
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]