

Product datasheet for **RC205127L4V**

PDK1 (NM_002610) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	PDK1 (NM_002610) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PDK1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_002610
ORF Size:	1308 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC205127).
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.
RefSeq:	NM_002610.3
RefSeq Size:	4674 bp
RefSeq ORF:	1311 bp
Locus ID:	5163
UniProt ID:	Q15118
Cytogenetics:	2q31.1
Domains:	HATPase_c
Protein Families:	Druggable Genome, Protein Kinase



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Protein Pathways:	Fc epsilon RI signaling pathway, Neurotrophin signaling pathway, T cell receptor signaling pathway
MW:	49.2 kDa
Gene Summary:	Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jun 2013]