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Product datasheet for RC223312L1V

Thymidine Kinase 2 (TK2) (NM_004614) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Thymidine Kinase 2 (TK2) (NM_004614) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Thymidine Kinase 2
Synonyms:	MTDPS2; MTTK; PEOB3; SCA31
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_004614
ORF Size:	795 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC223312).`
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_004614.3
RefSeq Size:	3675 bp
RefSeq ORF:	798 bp
Locus ID:	7084
UniProt ID:	O00142
Cytogenetics:	16q21
Domains:	dNK
Protein Families:	Druggable Genome

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Protein Pathways: Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism

MW: 31 kDa

Gene Summary: This gene encodes a deoxyribonucleoside kinase that specifically phosphorylates thymidine, deoxycytidine, and deoxyuridine. The encoded enzyme localizes to the mitochondria and is required for mitochondrial DNA synthesis. Mutations in this gene are associated with a myopathic form of mitochondrial DNA depletion syndrome. Alternate splicing results in multiple transcript variants encoding distinct isoforms, some of which lack transit peptide, so are not localized to mitochondria. [provided by RefSeq, Dec 2012]