

## Product datasheet for **RC222246L3V**

### **MYLK3 (NM\_182493) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	MYLK3 (NM_182493) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MYLK3
Synonyms:	caMLCK; MLCK; MLCK2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_182493
ORF Size:	2457 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222246).
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. <a href="#">More info</a>
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:	<a href="#">NM_182493.2</a>
RefSeq Size:	7998 bp
RefSeq ORF:	2460 bp
Locus ID:	91807
UniProt ID:	<a href="#">Q32MK0</a>
Cytogenetics:	16q11.2
Protein Families:	Druggable Genome, Protein Kinase



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<b>Protein Pathways:</b>	Calcium signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Vascular smooth muscle contraction
<b>MW:</b>	88.8 kDa
<b>Gene Summary:</b>	Phosphorylation of cardiac myosin heavy chains (see MYH7B, MIM 609928) and light chains (see MYL2, MIM 160781) by a kinase, such as MYLK3, potentiates the force and rate of cross-bridge recruitment in cardiac myocytes (Chan et al., 2008 [PubMed 18202317]).[supplied by OMIM, Jul 2008]