

## Product datasheet for **MR225821L3V**

### **Mylk3 (NM\_175441) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Mylk3 (NM_175441) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Mylk3
Synonyms:	D830007F02Rik; MLCK
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_175441
ORF Size:	2385 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR225821).
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_175441.5</a> , <a href="#">NP_780650.2</a>
RefSeq Size:	3070 bp
RefSeq ORF:	2388 bp
Locus ID:	213435
UniProt ID:	<a href="#">Q3UIZ8</a>
Cytogenetics:	8 C3



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**Gene Summary:**

Kinase that phosphorylates MYL2 in vitro. Has been proposed to be calmodulin-dependent (PubMed:17885681), although MYL2 phosphorylation has also been observed in the presence or absence of calmodulin (PubMed:18202317). Promotes sarcomere formation in cardiomyocytes and increases cardiomyocyte contractility.[UniProtKB/Swiss-Prot Function]