

## Product datasheet for **MR210614L3V**

### **Pfkl (NM\_008826) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Pfkl (NM_008826) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Pfkl
Synonyms:	AA407869; ATP-PFK; PFK-B; PFK-L
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_008826
ORF Size:	2343 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210614).
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_008826.2</a> , <a href="#">NP_032852.2</a>
RefSeq Size:	3741 bp
RefSeq ORF:	2343 bp
Locus ID:	18641
UniProt ID:	<a href="#">P12382</a>
Cytogenetics:	10 39.72 cM



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**Gene Summary:**

Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis (By similarity). Negatively regulates the phagocyte oxidative burst in response to bacterial infection by controlling cellular NADPH biosynthesis and NADPH oxidase-derived reactive oxygen species. Upon macrophage activation, drives the metabolic switch toward glycolysis, thus preventing glucose turnover that produces NADPH via pentose phosphate pathway (PubMed:26194095).[UniProtKB/Swiss-Prot Function]