

## Product datasheet for **RC209093L2V**

### **FAM173B (ATPSCKMT) (NM\_199133) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	FAM173B (ATPSCKMT) (NM_199133) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ATPSCKMT
Synonyms:	FAM173B; hFAM173B; JS-2
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_199133
ORF Size:	699 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209093).
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_199133.1</a> , <a href="#">NP_954584.1</a>
RefSeq Size:	2672 bp
RefSeq ORF:	702 bp
Locus ID:	134145
UniProt ID:	<a href="#">Q6P4H8</a>
Cytogenetics:	5p15.2
Protein Families:	Druggable Genome, Transmembrane
MW:	26.1 kDa



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**Gene Summary:**

Mitochondrial protein-lysine N-methyltransferase that trimethylates ATP synthase subunit C, ATP5MC1 and ATP5MC2. Trimethylation is required for proper incorporation of the C subunit into the ATP synthase complex and mitochondrial respiration (PubMed:29444090, PubMed:30530489). Promotes chronic pain (PubMed:29444090). Involved in persistent inflammatory and neuropathic pain: methyltransferase activity in the mitochondria of sensory neurons promotes chronic pain via a pathway that depends on the production of reactive oxygen species (ROS) and on the engagement of spinal cord microglia (PubMed:29444090).[UniProtKB/Swiss-Prot Function]