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Product datasheet for RC221554L4V

EPM2A (NM_001018041) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	EPM2A (NM_001018041) Human Tagged ORF Clone Lentiviral Particle
Symbol:	EPM2A
Synonyms:	EPM2; MELF
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001018041
ORF Size:	951 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC221554).`
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_001018041.1, NP_001018051.1
RefSeq Size:	1711 bp
RefSeq ORF:	954 bp
Locus ID:	7957
UniProt ID:	O95278
Cytogenetics:	6q24.3
Protein Families:	Druggable Genome, Phosphatase
MW:	35.3 kDa

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Gene Summary: This gene encodes a dual-specificity phosphatase and may be involved in the regulation of glycogen metabolism. The protein acts on complex carbohydrates to prevent glycogen hyperphosphorylation, thus avoiding the formation of insoluble aggregates. Loss-of-function mutations in this gene have been associated with Lafora disease, a rare, adult-onset recessive neurodegenerative disease, which results in myoclonus epilepsy and usually results in death several years after the onset of symptoms. The disease is characterized by the accumulation of insoluble particles called Lafora bodies, which are derived from glycogen. [provided by RefSeq, Jan 2018]