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Product datasheet for MR211592L4V

Plekhm1 (NM_183034) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Plekhm1 (NM_183034) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Plekhm1
Synonyms:	AP162; B2; BC038943; D330036J23Rik
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_183034
ORF Size:	3222 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211592).
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_183034.1
RefSeq Size:	5144 bp
RefSeq ORF:	3225 bp
Locus ID:	353047
UniProt ID:	Q7TSI1
Cytogenetics:	11 E1

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Gene Summary: Proposed to act as a multivalent adapter protein that regulates Rab7-dependent and HOPS complex-dependent fusion events in the endolysosomal system and couples autophagic and the endocytic trafficking pathways. Required for late stages of endolysosomal maturation, facilitating both endocytosis-mediated degradation of growth factor receptors and autophagosome clearance. Seems to be involved in the terminal maturation of autophagosomes and to mediate autophagosome-lysosome fusion (PubMed:25498145). Positively regulates lysosome peripheral distribution and ruffled border formation in osteoclasts (PubMed:27777970). May be involved in negative regulation of endocytic transport from early endosome to late endosome/lysosome implicating its association with Rab7 (By similarity). May have a role in sialyl-lex-mediated transduction of apoptotic signals (By similarity). Involved in bone resorption (PubMed:27777970).[UniProtKB/Swiss-Prot Function]