

Product datasheet for **RR201285L3V**

Atg9a (NM_001014218) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Atg9a (NM_001014218) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Atg9a
Synonyms:	RGD1310450
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001014218
ORF Size:	2517 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR201285).
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_001014218.1 , NP_001014240.1
RefSeq Size:	4134 bp
RefSeq ORF:	2520 bp
Locus ID:	363254
UniProt ID:	Q5FWU3
Cytogenetics:	9q33



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Gene Summary:

Involved in autophagy and cytoplasm to vacuole transport (Cvt) vesicle formation. Plays a key role in the organization of the preautophagosomal structure/phagophore assembly site (PAS), the nucleating site for formation of the sequestering vesicle. Cycles between a juxta-nuclear trans-Golgi network compartment and late endosomes. Nutrient starvation induces accumulation on autophagosomes. Starvation-dependent trafficking requires ULK1, ATG13 and SUPT20H (By similarity).[UniProtKB/Swiss-Prot Function]