

## Product datasheet for **MR210108L4V**

### Atg7 (NM\_028835) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Atg7 (NM_028835) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Atg7
Synonyms:	1810013K23Rik; Agp7; Apg7l; Atg7l; Gm21553
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_028835
ORF Size:	2094 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210108).
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_028835.1</a>
RefSeq Size:	3061 bp
RefSeq ORF:	2097 bp
Locus ID:	74244
UniProt ID:	<a href="#">Q9D906</a>
Cytogenetics:	6 E3



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**Gene Summary:**

This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]