

Product datasheet for **MR223616L4V**

Atg4c (NM_175029) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Atg4c (NM_175029) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Atg4c
Synonyms:	Apg4-C; Apg4c; Atg4cl; Autl1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_175029
ORF Size:	1377 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR223616).
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_175029.3
RefSeq Size:	3236 bp
RefSeq ORF:	1377 bp
Locus ID:	242557
UniProt ID:	Q811C2
Cytogenetics:	4 C6



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Gene Summary:

Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3 and GABARAPL2, to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. Has also an activity of delipidating enzyme for the PE-conjugated forms (By similarity). Is not essential for autophagy development under normal conditions but is required for a proper autophagic response under stressful conditions such as prolonged starvation.[UniProtKB/Swiss-Prot Function]