

## Product datasheet for **MC228500**

### **Atg9a (NM\_001288613) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atg9a (NM_001288613) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg9a
Synonyms:	Apg9l1; Atg9; Atg9l1; AU019532
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228500 representing NM\_001288613  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGCCCTGGTGAACAAATCCCTCCTGCTCTGCGCTTCCGTCTGCCCGGCCTCGGAGAGGTTGTCT  
 TCTTCACCCGTGGCCTCAAGTACAACCTTTGAGCTCATCCTCTTCTGGGGACCCGGCTCTCTGTTTCTCAA  
 TGAGTGGAGCCTCAAGGCCGAGTACAAACGTGGAGGGCAACGGCTAGAGCTGGCCACGCTCTCAGCAAC  
 CGCATCTTGTGGATTGGCATCGCAACTTCTGCTGTGTCCCCTCATCCTCATCTGGCAGATCCTCTATG  
 CCTTCTCAGCTATGCCGAGGTGCTGAAGAGAGAGCCGGGGCCCTGGGAGCGGTTGTGGTCACTCTA  
 TGGCCGTTGTTACCTCCGCCACTTCAATGAGCTGGAGCATGAGCTGCAGTCCCGCCTCAACCGAGGCTAC  
 AAGCCCGCTCCAAGTACATGAATTGCTTCTTGTACCCGCTGCTGACTCTGTGGCAAGATGGTGCCT  
 TCTTCGCTGGCTATCCTGGCTGTGCTTATTGCCCTCACCATCTATGATGAAGATGTGTAGCTGTGGA  
 ACACGCTCTCACCACGGTCACCCTCCTGGGAGTCACGGTACTGTGTGCAGGTCCTTCATCCCAGACCAG  
 CACATGGTGTTCGCCCGAGCAGCTGCTCCGAGTGATTCTTGCACACATCCACTACATGCCTGACCACT  
 GGCAGGGTAATGCCACCGCTCGCAGACCCGGGACGAGTTTGGCCAGCTCTTCCAGTACAAGGCAGTGTT  
 CATCTTGGAGGAGTTGCTGAGTCCCATCGTCACACCCCTCATTCTCATCTTCTGCCTCCGCCCTCGGGCC  
 CTGGAGATCATAGACTTCTCCGCAACTTTACGGTCGAGGTCGTGGGTGTGGGAGACACCTGCTCCTTTG  
 CTCAGATGGACGTTCCGACGATGGCCATCCTCAGTGGCTGTCTGGAGGGCAGACAGAGGCCCTCAGTGA  
 CCAGCAAGCCGAGGACGGGAAGACCGAGTTGTCGCTCATGCACCTTCCATCACCATCCCGGCTGGCAG  
 CCCCTCGTGAGAGCACAGCTTTCCTGGGCTTCTCAAGGAGCAGGTGCAGCGAGATGGAGCAGCTGCTG  
 GCCTGGCCAGGGTGGCTGCTCCCGAGAATGCCCTTTCACATCCATCCAGTCTTACAGTCTGAGTC  
 CGAGCCACTGAGCCTTATTGCAAATGTGGTAGCAGGCTCATCCTGCCGAGGACCCCTCACTGTCCAGAGAC  
 CTGCAGGGCTCCAGGCACAGGGCTGATGTTGCTTCTGCCCTTCGATCCTTCTCCCTCTGCAGCCTGGAG  
 CGGCCCTCAAGGCCGGGTTCCAGTACCATGACAGGCTCTGGAGTGGATGCCAGGACAGCCAGCTCTGG  
 GAGTAGCGTGTGGGAAGGACAGCTGCAGAGCCTGGTGTGTCCGAATACGCGTCCACCGAGATGAGCCTG  
 CACGCCCTGTACATGCACCAGCTCCACAAGCAGCAGACCCAGGCTGAGCCCGAGCGGCATGTGTGGCACC  
 GCCGGGAGAGTGATGAGAGTGGAGAGAGTGCCTGAAGAGGGGGGAGAGGGTCCCGGGCCCCCAACC  
 CATCCCCGCTCGCCAGCTATCCTGTGCTACACCCCGCCTGGAGCACCTGAGACCACCGCCCTGCAT  
 GGGGGTTCAGAGGCGCTACGGGGCATCACAGATCCTGGCACAGTCCCCGTGGCCCTCTCACTTCT  
 CCAGGCTGCCCTGGGAGGATGGGCAGAAGATGGCCAGCCAGCATCAAGGCACCCAGAGCCGGTGCCAGA  
 GGAGGGCTCAGAGGATGAACTCCCCCTCAAGTGCACAAGGTA**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM\_001288613
- Insert Size:** 1866 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001288613.1](#), [NP\\_001275542.1](#)

**RefSeq Size:** 4104 bp

**RefSeq ORF:** 1866 bp

**Locus ID:** 245860

**Cytogenetics:** 1 C4

**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). Required for carbonyl cyanide m-chlorophenylhydrazone (CCCP)-induced ATG8 family proteins lipidation, a key autophagy step.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) uses an alternate splice junction at the 5' end of an exon and initiates translation at an alternate start codon, compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a.