

Product datasheet for **MC229026**

Atg9a (NM_001288612) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg9a (NM_001288612) 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: >MC229026 representing NM_001288612
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACAGTTTGACACTGAATACCAGCGCCTAGAGGCCTCTATAGCGATTGCCCCCGGGGAAGAGG
 ACCTGTTGGTGCATGTGGCCGAGGGGAGCAAATCACCTTGGCACCACATTGAAAACCTTGACCTTCTT
 CTCTCGAGTTTATAATCTCCACCAGAAGAATGGCTTACATGTATGCTCATTGGAGAGATGTTTGAACCT
 ATGCAAGTCTCTTTGTGGTGCCTTACCACCTTCTGGTTAGCTGTGTGGACTATGACATCCTCTTTG
 CCAACAAGATGGTGAACCACAGTCTCCATCCTACTGAGCCTGTCAAGGTCCTGCCAGATGCCTTTTT
 GCCTGCCAAGTCTGTAGTGCCAGGATTCAGGAAAATGGCTCTTATCACCATCCTGGTATTGCTGGT
 GTCTTCTGGATCCACCGCTTATCAAGTTTATCTATAACATTTGCTGCTATTGGGAGATCCACTCCTTCT
 ACCTACATGCTCTTCGGATCCCAATGTCTGCCCTTCCATACTGCACATGGCAGGAAGTTCAGGCCGGAT
 TGTGCAGACGCAGAAAGAGCATCAGATCTGCATCCACAAGCGTGAGCTGACAGAGTTGGACATCTACCAT
 CGCATCCTACGTTTCCAGAACTACATGGTGGCCCTGGTGAACAAATCCCTCCTGCCTCTGCGCTTCGGTC
 TGCCCCGGCCTCGGAGAGGTTGTCTTCTCACCCGTGGCCTCAAGTACAACCTTTGAGCTCATCCTCTTCTG
 GGGACCCGGCTCTGTTTTCTCAATGAGTGGAGCCTCAAGGCCGAGTACAAACGTGGAGGGCAACGGCTA
 GAGCTGGCCCAGCGTCTCAGCAACCGCATCTTGTGGATTGGCATCGCCAACTTCTGTGTGTCCCTCA
 TCCTCATCTGGCAGATCCTCTATGCCTTCTTACGATATGCCGAGGTGCTGAAGAGAGAGCCGGGGCCCT
 GGGAGCGGTTGCTGGTCACTCTATGGCCGTTGTTACCTCCGCCACTTCAATGAGCTGGAGCATGAGCTG
 CAGTCCCGCCTCAACCGAGGCTACAAGCCCGCCTCCAAGTACATGAATTGCTTATTGCTCCACCATCTA
 CTCTGCTGGCCAAGAATGGTGCCTTCTTCGCTGGCTCTATCCTGGCTGTGCTTATTGCCCTCACCATCTA
 TGATGAAGATGTGTTAGCTGTGGAACACAGTCTCACCACGGTCAACCCTCCTGGGAGTACGGTGACTGTG
 TGCAGGTCCTTATCCCAGACCAGCACATGGTGTCTGCCCGAGCAGCTGCTCCGAGTATTCTTGCAC
 ACATCCACTACATGCCTGACCACTGGCAGGGTAAATGCCACCCTCGCAGACCCGGGACGAGTTTGCCCA
 GCTCTTCCAGTACAAGGCAGTGTTCATCTTGGAGGAGTTGCTGAGTCCCATCGTCACACCCTCATTCTC
 ATCTTCTGCCTCCGCCCTCGGGCCTGGAGATCATAGACTTCTTCCGCAACTTACGGTTCGAGGTCGTGG
 GTGTGGGAGACACCTGCTCCTTGTCTCAGATGGACGTTCCGACAGATGGCCATCCTCAGTGGCTGTCTGG
 AGGGCAGACAGAGGCTCAGTGTACCAGCAAGCCGAGGACGGGAAGACCGAGTTGTCGCTCATGCACTTT
 GCCATACCAATCCCGGCTGGCAGCCCCCTCGTGAGAGCACAGCTTTCCTGGGCTTCTCAAGGAGCAGG
 TGCAGCGAGATGGAGCAGCTGCTGGCCTGGCCAGGGTGGCCTGCTCCCCGAGAATGCCCTTTCACATC
 CATCCAGTCTTACAGTCTGAGTCCGAGCCACTGAGCCTTATTGCAAATGTGGTAGCAGGCTCATCCTGC
 CGAGGACCCTCACTGTCCAGAGACCTGCAGGGCTCCAGGCACAGGGCTGATGTTGCTTCTGCCCTTCGAT
 CCTTCTCCCCTCTGCAGCCTGGAGCGGCCCTCAAGGCCGGGTCCCAGTACCATGACAGGCTCTGGAGT
 GGATGCCAGGACAGCCAGCTCTGGGAGTAGCGTGTGGGAAGGACAGCTGCAGAGCCTGGTGTGTCCGAA
 TACCGTCCACCGAGATGAGCCTGCACGCCCTGTACATGCACCAGCTCCACAAGCAGCAGACCCAGGCTG
 AGCCCGAGCGGCATGTGTGCCACCGCCGGGAGAGTGTGAGAGTGGAGAGAGTGGCCCTGAAGAGGGGGG
 AGAGGGTGGCCGGCCCCCAACCCATCCCCCGCTCGCCAGCTATCCCTGTGCTACACCCCGCCTGGA
 GCACCTGAGACCACCGCCTGCATGGGGCTTCCAGAGGCGCTACGGGGGCATCACAGATCCTGGCACAG
 TGCCCCGTGGCCCTCTCACTTCTCAGGCTGCCCTGGGAGGATGGGCAGAAGATGGCCAGCCAGCATC
 AAGGCACCCAGAGCCGGTCCAGAGGAGGGCTCAGAGGATGAACTCCCCCTCAAGTGCACAAGGT**ATAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001288612
Insert Size: 2520 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:	<ol style="list-style-type: none"> 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:	<u>NM_001288612.1, NP_001275541.1</u>
RefSeq Size:	3859 bp
RefSeq ORF:	2520 bp
Locus ID:	245860
UniProt ID:	<u>Q68FE2</u>
Cytogenetics:	1 C4
Gene Summary:	<p>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-chlorophenylhydrazine (CCCP)-induced ATG8 family proteins lipidation, a key autophagy step.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (a). Variants 1 and 2 both encode the same isoform (a).</p>