

Product datasheet for **MC218655**

Atg9a (BC079884) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg9a (BC079884) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg9a
Synonyms:	Atg9, Atg9l1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >BC079884
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACAGTTTGACACTGAATACCAGCGCTAGAGGCCTCTATAGCGATTGCCCCCGGGGAAGAGG
 ACCTGTTGGTGCATGTGGCCGAGGGGAGCAAATCACCTTGGCACCACATTGAAAACCTTGACCTCTTCTT
 CTCTCGAGTTTATAATCTCCACCAGAAGAATGGCTTACATGTATGCTCATTGGAGAGATGTTTGAACCT
 ATGCAGTTCCTCTTTGTGGTTGCCTTACCACCTTCTGGTTAGCTGTGTGGACTATGACATCCTCTTTG
 CCAACAAGATGGTGAACCACAGTCTCCATCCTACTGAGCCTGTCAAGGTCACTCTGCCAGATGCCTTTTT
 GCCTGCCCAAGTCTGTAGTGCCAGGATTCAGGAAAATGGCTCTTATCACCATCCTGGTATTGCTGGT
 GTCTTCTGGATCCACCGCTTATCAAGTTTATCTATAACATTTGCTGCTATTGGGAGATCCACTCCTTCT
 ACCTACATGCTCTTCGGATCCCAATGTCTGCCCTTCCATACTGCACATGGCAGGAAGTTCAGGCCGGAT
 TGTGCAGACGCAGAAAGAGCATCAGATCTGCATCCACAAGCGTGAGCTGACAGAGTTGGACATCTACCAT
 CGCATCTACGTTTCCAGAACTACATGGTGGCCCTGGTGAACAAATCCCTCCTGCCTCTGCGCTTCGGTC
 TGCCCCGGCCTCGGAGAGTTGTCTTCTTCAACCGTGGCCTCAAGTACAACCTTTGAGCTCATCCTCTTCTG
 GGGACCCGGCTCTCTGTTTCTCAATGAGTGGAGCCTCAAGGCCGAGTACAAACGTGGAGGGCAACGGCTA
 GAGCTGGCCAGCGTCTCAGCAACCGCATCTTGTGGATTGGCATCGCCAACCTTCTGCTGTGTCCCTCA
 TCCTCATCTGGCAGATCCTCTATGCCTTCTTACGCTATGCCGAGGTGCTGAAGAGAGAGCCGGGGCCCT
 GGGAGCGCTTGTGGTCACTCTATGGCCGTTGTTACCTCCGCCACTTCAATGAGCTGGAGCATGAGCTG
 CAGTCCCGCCTCAACCGAGGCTACAAGCCCGCTCCAAGTACATGAATTGCTTCTTGTACCCTGCTGA
 CTCTGCTGGCCAAGAATGGTGCCTTCTTGGCTCTATCCTGGCTGTGCTTATTGCCCTCACCATCTA
 TGATGAAGATGTGTTAGCTGTGGAACACGTCCTACCACGGTACCCTCCTGGGAGTCACGGTGACTGTG
 TGACGGTCTTATCCCAGACCAGCACATGGTGTCTGCCCGAGCAGCTGCTCCGAGTGATTCTTGCAC
 ACATCCACTACATGCCTGACCACTGGCAGGGTGTTCATCTTGGAGGAGTTGCTGAGTCCCATCGTCACAC
 CCCTCATCTCATCTTCTGCCTCCGCCCTGGGCCCTGGAGATCATAGACTTCTTCCGCAACTTTACGGT
 CGAGGTGCTGGGTGTGGGAGACACTGCTCCTTTGCTCAGATGGACGTTCCGCCAGCATGGCCATCCTCAG
 TGGCTGTCTGGAGGGCAGACAGAGGCCTCAGTGTACCAGCAAGCCGAGGACGGGAAGACCGAGTTGTCCG
 TCATGCACTTTGCCATCACCAATCCCGGCTGGCAGCCCCCTCGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: BC079884

Insert Size: 1656 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).

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: [BC079884](#), [AAH79884](#)

RefSeq Size: 3792 bp

RefSeq ORF: 1655 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]