

Product datasheet for MC210405

Atg4b (NM_174874) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg4b (NM_174874) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg4b
Synonyms:	2510009N07Rik; Apg4b; Atg4bl; Autl1; AW048066
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210405 representing NM_174874 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGCAGCCACTTTGACATATGATACTCTCCGTTTCTGTAATTTGAAGATTTCCCTGAGACCTCAG
AGCCTGTTGGATTCTGGGCAGAAAATACAGCATTTTCACAGAGAAGGACGAAATCTGTCTGATGTTGC
ATCCAGACTTTGGTTTACATACAGGAGAACTTCCAGCTATTGGGGAACTGGCCCTACTTCAGACACA
GGCTGGGTTGCATGCTTCGGTGTGGACAGATGATCTTTGCCAGGCCCTGGTATGCCGGCACTTAGGTC
GAGATTGGAGGTGGACTCAGCGAAGAGGCAGCCTGACAGCTACTTAAATGTCCTCAATGCTTTCCTCGA
CAGGAAGGACAGCTACTATTCCATCCATCAGATAGCGCAAATGGGAGTTGGCGAAGGCAAGTCTATAGGC
CAGTGGTACGGGCCGAACACTGTTGCCAGTCCCAAGAACTTGTGTATTTCGACACATGGAGTTCCT
TGGCTGTTACATAGCAATGGACAACACTGTGGTGTGGAGGAAATCAGAAGGTTATGCAGGGCCAACT
TCCCTGTGCTGGGGCGGCTGCACCTCCTACTGATTCAGAGAGGCACTGTAATGGGTTCCCTGCTGGAGCT
GAAGTCACCAACAGGCCATCGGCTTGGAGACCACTAGTGCTTCTCATCCCTCCTCCGCTGGGACTGACAG
ACATCAATGAGGCCTATGTGGAGACGCTGAAGCACTGTTTCATGATGCCCCAGTCCCTGGGTGTTATTGG
AGGGAAGCCCAACAGTGGCCACTACTTTATTGGCTATGTTGGGAGGAGCTCATCTATCTGGACCCCACT
ACTACACAGCCTGCAGTGGAGCTGACTGACAGCTGCTTCCATCCCGACGAGAGCTTCCACTGCCAGCACC
CTCCCTTAGGATGGGCATTGGAGAGCTTGACCGTCCATTGCTGTGGGTTTTTCTGTAAGAAGGAGGA
AGACTTTAACGACTGGTGTGAGCAAGTCAAAAAGCTATCCAGCTTGGAGGTGCCCTGCCATGTTTGAG
CTGGTGAACAGCAGCCTTCCATCTGGCTGCCAGGATGCTGAACTGTCCCTAGACTCTTCTGATG
TAGAGAGACTGGAGAGGTTTTTACTCTGAGGATGAAGACTTTGAAATCTTATCCCTCTGA

ACGCGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Chromatograms: https://cdn.origene.com/chromatograms/ja1897_e11.zip

Restriction Sites: SgfI-MluI

ACCN: NM_174874

Insert Size: 1182 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC027184](#), [AAH27184](#)

RefSeq Size: 2964 bp

RefSeq ORF: 1182 bp

Locus ID: 66615

UniProt ID: [Q8BGE6](#)

Cytogenetics: 1 D

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, GABARAPL1, GABARAPL2 and GABARAP, 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).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.