

Product datasheet for **MG206129**

Atg4b (NM_174874) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg4b (NM_174874) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atg4b
Synonyms:	2510009N07Rik; Apg4b; Atg4bl; Autl1; AW048066
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206129 representing NM_174874 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGCAGCCACTTTGACATATGATACTCTCCGTTTGTGAATTTGAAGATTTCCCTGAGACCTCAG
AGCCTGTTGGATTCTGGGCAGAAAATACAGCATTTTACAGAGAAGGACGAAATCTGTCTGATGTTGC
ATCCAGACTTTGGTTTACATACAGGAGAACTTCCAGCTATTGGGGAACTGGCCCTACTTCAGACACA
GGCTGGGGTTGCATGCTTCGGTGTGGACAGATGATCTTTGCCAGGCCCTGGTATGCCGGCACTTAGGTC
GAGATTGGAGGTGGACTCAGCGAAGAGGCAGCCTGACAGCTACTTTAATGTCCTCAATGCTTTCCTCGA
CAGGAAGGACAGCTACTATTCCATCCATCAGATAGCGCAAATGGGAGTTGGCGAAGGCAAGTCTATAGGC
CAGTGGTACGGGCCGAACACTGTTGCCAGTCCCAAGAACTTGTGTATTGACACATGGAGTTCCT
TGGCTGTTACATAGCAATGGACAACACTGTGGTGTGGAGGAAATCAGAAGGTTATGCAGGGCCAACT
TCCCTGTGCTGGGGCGGCTGCACCTCCTACTGATTGAGAGGCACTGTAATGGGTTCCCTGCTGGAGCT
GAAGTCACCAACAGGCCATCGGCTTGGAGACCACTAGTGCTTCTCATCCCTCCTCCGCTGGGACTGACAG
ACATCAATGAGGCCTATGTGGAGACGCTGAAGCACTGTTTCATGATGCCCCAGTCCCTGGGTGTTATTGG
AGGGAAGCCCAACAGTGGCCACTACTTTATTGGCTATGTTGGGGAGGAGCTCATCTATCTGGACCCCACT
ACTACACAGCCTGCAGTGGAGCTGACTGACAGCTGCTTCATCCCCGACGAGAGCTTCCACTGCCAGCACC
CTCCCTTAGGATGGGCATTGGAGAGCTTGACCCGTCATTGCTGTGGGGTTTTCTGTAAGAAGGAGGA
AGACTTTAACGACTGGTGTGAGCAAGTCAAAAAGCTATCCAGCTTGGAGGTGCCCTGCCATGTTTGAG
CTGGTGAACAGCAGCCTTCCATCTGGCTGCCAGGATGCTGAACTGTCCCTAGACTCTTCTGATG
TAGAGAGACTGGAGAGGTTTTTACTCTGAGGATGAAGACTTTGAAATCTTATCCCTC

ACCGTACGGGCCGCTCGAG - GFP Tag - GTTAA



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OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_174874.1](#), [NP_777363.1](#)

RefSeq Size: 2965 bp

RefSeq ORF: 1182 bp

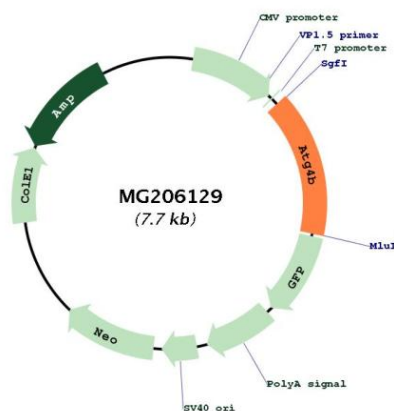
Locus ID: 66615

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]

Product images:



Circular map for MG206129