

Product datasheet for **MC206078**

Atg4c (BC058981) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg4c (BC058981) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg4c
Synonyms:	Apg4-C, Atg4cl
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC058981
 TGGCTGGCGGGTAGTAGCTGAAGTCCAGTAGTTACAGTTACGAGGGACAGCTGTAATCTAACTGGGCC
 TGCCCCTCACAAATGAACTGCTCTAGGCTCTGAGCTTGCAGCCCGGGAGCTTAGGGTCTCCGACAGGGCT
 TCCTGCAGGACCGCGGCTGCGGAGGCTTCGGTGTGCTGTGCTACGGTGGCCGCGCGGGGCCGCGGGCCG
 CACGCTCTGCGGTGCGTACGCGCTGTTCCGAGCGGCTGCTGGAGCCGACGCGCTCTGGTGTGGGACTC
 CTGGCGGCTGTACAGTTATCCAGTCCCCTGTCGCCGAGGGTTCGGCTCGAGGCTGGCGGAGTGGAGAAG
 GTTGGAGCTTGGTGTGTTGAGTCTACGAATGGCCGTTCTGGGGCGGCCCTGCCCTTGGTGCAGACCCG
 TGGCCAACCGTCTGGGTTCTGGAGGGTTTTGGAGCCTCTCTCGATTCTGCTTCCCTCTGAGGGTTATCT
 TCTGACGACTCCTCCTCGCCCTTGAACCTATATTGGATTTTCTAAAAGAATGGAATCAAGTGATGGCTT
 TTTCTCCAGAATTTGAATATGGAGGCTTCAGGAACAGATGAAGTTGACAAGCTAAAACTAAATTTATAT
 CTGCTTGGAAACAATGAAATATAGTTGGGTGTTGAAAACAAAGACATATTTTAGTAGAAATTCACCTGT
 TTTATTGCTTGGAAAATGTTATCATTTTAAATATGAAGATGAAAGCAAGATGTTGCCTGCAAGATCAGGA
 TGTGCCATTGAAGATCATGTAATTGCAGGGAATGTGGAAGAGTCCGTAAGGATTTCAATTTCTAGATTAT
 GGCTGACCTACAGGAAGAATTTCTCAAATCGAAGCTTCAGCCTTGACGACAGACTGTGGCTGGGGCTG
 CACGCTGCGGACCGCCAGATGTGCTGGCTCAGGGACTCATACTCCATTTTCTCGGTAGAGCTTGACC
 TGGCCTGATGCGCTGCACATTGAGAACGACAGCTGACTCATGGACTTCCAACACTGTCAAAAAGTTTA
 CTGCATCGTTTGAAGCTTCACTTTCGGGGGACAGAGAAGCTCAGAAGCTCCAGCAGTTTCTCTGAAGGAAAC
 ATCTGGGAAGTGTCCCGATGACCACGAGTGGGAATGAGGCTTATCACAGGAAGATCATCTTGGTTT
 GGAGATTTCCCGTGGCCGTCTTGGCTTACATCGTCTGATAGAGTTTGGGAAGAAGTCTGGGAAAAAAG
 CTGGCGATTGGTATGACCAGCGGTGGTTGCTCACATTTAAGAAAAGCAGTTGAAGAAGCAAGGCATCC
 GGATTTGCAAGGGCTAACTATTTATGTTGCCAGGACTGTACAGTTTACAATTCTGACGTGATTGATAAG
 CAGACTGACTCCGTGACAGCTGGAGATGCACGTGACAAGGCTGTATTATTTAGTTCCTGTTAGACTCG
 GTGGAGAAGGACCAATACCGACTATCTGGAGTTTGTGAAGGGTGTTTAAGCCTGAATACTGTGTAAG
 TATCATTTGGCGGCAACCTAAACAGTCATATTACTTTGCTGGATTTCAGATGACAGTTTGATTTACATG
 GATCCTCATTACTGCCAGTCTTTGTAGATGTCAGCATAAAGGATTTCCCTCTCGAGACATTCCACTGTC
 CATCTCTAAAAGATGTCATTTGAAAATGGATCCTAGTTGTACGATAGGATTTACTGTGAAAATGT
 CCAGGACTTTGAACGAGCGTCTGAAGAAATCACTAAGATGTTGAAAATTTCTCTAAGGAGAAAATATCCA
 CTATTTACTTTTGAATGGCCATTTCAAAGACTTTGATTTTACATCTACCGCAGCCAGTGAAGAAGACC
 TTTTCTCAGAAGATGAAAGGAAGAATTTCAAAGATTTAGCACAGAAGAGTTTGCCTCCTTTAAAGGGG
 AAGACATTTGTGACATTTGTGCTTCTGAGAGGCGCTCGAACACAGCAGAGTCAAGGAGCGCAACAGTGAG
 CTGGAGACTCTAACGGAGCGGTTCTCTAACAGCACACATTTGAAAACCTAGACTATAAAGGATTTT
 TTCTGAATACCTTTTCTAAATGACTTGTAGGCTTTGCTTCCAGTGATAAATAACAAGCGATTCTGGTT
 GCATTCCTGTTTCCCAAAGATGTGCTAATGGAACACTACATCAACTGCAAGCCTTTCGGTCCCCAGCATT
 TTCTCCCTGAGCCATTGGTCCCCTGAAGGCTTTATGATACATGTTTCTCAAAGAGTCAAGTACCAAG
 TTACTTTTAAAAGCCTCCCTTTGATTAATGACAGGAGACTGGATCTTCAGAGCTACCCAACCTCCTGCT
 CTTAATGTAACCAGAGGACTTTCGGGTTTGGTAACTGGATAGTGAATGGACACATATAATTATGTAAG
 CAGGATTTAAGGCAATACTTACCCATATGATTTTATAGCAGCTACTCTTTATGCATTTTGGGAGTCTT
 CTATGAGGAATGAATACAAAACACTTGTTCCTCCCCCTCCCTCCCTCCTTCTCTCTCTCTCTCTCTCT
 TTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT
 TCCTTCT
 ACTGGGCTGGGGTTGAACCCAGGCGCTGTATATGATAGGTATGTGTTCTACCTCTGAGCTGTCTAA
 AGTATTGATTTTCTACATATTTAAAAGTTAAATTTTTCAGTAGTATCTATATTTATTTAATTAGGTAA
 AGGAAATTACAGACTTATTGTAGCTTTTGTTCATCTTAAAAGTGAATTTTATGGAAATCCAATGTA
 TTACTTAATTTTAACTCAAATGATGAATAACAAGGAATATATGGATGCTTTCTGCTTTTACTGTTTGTGT
 AAAATGGTGTGATGACATTTAGGAGCTGAGACATGTACAGTTAAATCTGCCTTAAAGTGTGCTGTGAGTT
 TACTTAAAGACAACTTGTGATATAAGAGTGAAGAGCTATTACCAAGCCAGGATTATAAAACAAATACT
 TTAATTAACATGAAAACATAA AAAAAAAAAAAAA

Restriction Sites: Ascl-NotI
ACCN: BC058981
Insert Size: 1377 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:	<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:	BC058981 , AAH58981
RefSeq Size:	3232 bp
RefSeq ORF:	1377 bp
Locus ID:	242557
Cytogenetics:	4 C6
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 and GABARAPL2, 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). Is not essential for autophagy development under normal conditions but is required for a proper autophagic response under stressful conditions such as prolonged starvation.[UniProtKB/Swiss-Prot Function]