

Product datasheet for **MC203435**

Atg12 (NM_026217) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg12 (NM_026217) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg12
Synonyms:	4931423H11Rik; A330058M13Rik; Apg12l; Atg12l
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC070470
 AAGATGTCGGAAGATTCAGAGGTTGTGCTGCAGCTCCCCTCGGCTCCTGTAGGAGCCGGCGGAGAGCC
 TTCCAGAGCTCTCCCGGAAACAGCCACCCAGAGCCCCGCTCCTCGGCTGCAGTTTCGCCCGAAACGGA
 GGAACCTCCCGGAGACACCAAGAAAAAATGACATCCTGCTGAAGGCTGTAGGAGACACTCCTATAATG
 AAAACAAGAAATGGGCTGTGGAGCGAACCCGGACCATCAAGGACTCATTGACTTCATCAAAAAGTTCC
 TAAACTGGTGGCCTCGGAACAGTTGTTATTTATGTGAATCAGTCCTTTGCCCTTCCCAGACCAAGA
 AGTTGGAACCTATATGAGTGTTTTGGCAGTGATGGTAACTGGTCTGCATTACTGCAAAATCCCAGGCA
 TGGGGATGAGCCAGAAATGAACAACCTTGATATTTTACAGAAAGAAAAAATCAGAGACATTTCCGTGCT
 GTGGGAAGAGACTTACTATCAAATATTCAGCATGAATCTGTTAGGACCTGTGTTTATGTATAAGAAAACA
 TCATAGAGTATATAGACTAATGAATGAGATTTGTGTCACCATAAAATCATCATGAGAGATTGACGTTAGA
 GTGTGCCATTACTCCACACACTCCTGTTCCAGGTCACGTTAGAAAGGAGACTGAAGTTGTATGTGGATT
 GCAGGTCTCAGGATGACTGAAGGCATTTACTTGGTTGGCACTATGTTAATCCGTGATAAGAACTAATTT
 ACTGAAGGTTTTGTGTTTTGAGGTAATTTAGTTTTTTTGTATTTCAGGGGACCTCTATTTGGGATATAG
 AATGTTTACATTTATCTGTATTGCTCTGTAATAAATAGTGCAGTCTAAGTTGTCCGGTAGAGGGCAG
 CCAGTTGGCAAAAAGGCTTGACAGTTTTTATGGCTTTGCCAGGTGATTGGGGCAAGACTGTTGAACCTA
 ATTTCTAGTTAATGTGTAATCCGAAAGCAGCTGTGTTGACACACTGGAGGATGTGCATAGTTTAAAT
 AATCATGCAGGGACACAGTTTTACAAATTTGTGAGCAGATGAGTCTCAGCTCTCAGTCTGTCAATTTCTG
 GTTCTTGCCTCATCTGGCATTGTGATCCATACCTGTCTCAGCGCTCAGGACACCTGAGCAGGA
 AGAGTGAACCAGGAGTCCACAAC TAGACTGCAGTGCAAAAGAAGTTATCCCAAAAAGATTCTAGAGCCCT
 ACCCAGTGTGGGGACCACGCAGCACCAACTACCCATCTCCCAACCCTCACTTCTCGTCTCTATGTGCTT
 TTAGTTTTGGGTTTTGTTTTGGTTTTTTTTGTTTTGTTTTTTTTTCCAGGCTGGGGATCATTCCCCT
 TGCTTGTGCACCAAGGCATGGGCTTTGCTGAGCTGCATCTCCAGCATTCAATGAGTGTTCATAATGT
 ATTTCCCAAATGAAAATTTAGAGTATTCAGAGCTAATGGTTGAAAAGTATCCAAATTTTATGTGATTTCCGTG
 CATCACATACACAAAAAGAGTGCAGCTGTCACTGGTGATGTTAGCCTGGCTATTGCTTGAGCTAACAT
 TTGACCTTTTTCTACATATTTTATCTCAAACTTTTTTTTGAAGCTGGGTCTCACTATGTAGATCTGCCT
 AGCCTGGAACCTGCAGAGATCAGTGTGTCTGTCTATGCCTCCAAAGTGCTGAGATGAAGGGATAGCCAC
 CTCAGTCAAGCCACAGCAGTCTTAAATTTCAACCAGAAGCACACATGGCAGCACTCCTAGCATTGAGGA
 AGTGGAAACAAGCAGACTGAAAGTTAAGACTGTGTGGGCTACAGAGTGAAGTTGCTCACCTCTGGGGG
 AAAAATTACAGTAAAATGCTACTCTGTTGTTGCTGCTTTTGAAGTACTGTGCACTCAGGCTGACC
 TGCTCAGGCTCCGGGGCTTGCAGCTGTGCACCACTGCATCTGGCTCCTTTTTAACTCTTAGCTAGAGT
 GTGCTCTAGAGGAGCCTCAGCCATGTGAGCCATGGAAGAAGCTGTGGAACAACACGGTGCAGTGCTGACC
 ACTTGTCTTCTGCGCAAGAGTGTGAATTTGGACATGCCCTTCCCTCAGCATGCCTTGCAGTGAAGTCATG
 CAGGGAATAGTCACAGAGCACTGTGACAGTGGCTTATGCACAGTACAGCCTTAGGAAAACACCTTATAT
 CTTGAAAACCTGGGCCGTATTATTTATGAACAATGTGAGTGGGAAAGAAAAAGATGTGTTCTAGCTTTGC
 CTGGTAATTTGGTACTGAAAGAACATAGTAGATATTTACAGGAGAAGTATGTTGAATTTATTGTTGG
 CTGGTATTCATTCGAGATGACAGAATGCTTATTACTTCTATGAAATCAAAAATAAACTTGAATTTGAAAC
 ATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI

ACCN: NM_026217

Insert Size: 426 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: [BC070470](#), [AAH70470](#)

RefSeq Size: 2490 bp

RefSeq ORF: 426 bp

Locus ID: 67526

UniProt ID: [Q9CQY1](#)

Cytogenetics: 18 C

Gene Summary: Ubiquitin-like protein involved in autophagy vesicles formation. Conjugation with ATG5 through a ubiquitin-like conjugating system involving also ATG7 as an E1-like activating enzyme and ATG10 as an E2-like conjugating enzyme, is essential for its function. The ATG12-ATG5 conjugate acts as an E3-like enzyme which is required for lipidation of ATG8 family proteins and their association to the vesicle membranes.[UniProtKB/Swiss-Prot Function]