

Product datasheet for **MC219638**

Atg16l1 (NM_029846) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg16l1 (NM_029846) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg16l1
Synonyms:	1500009K01Rik; Apg16l; Atg16l; WDR30
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219638 representing NM_029846
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGTCGGCCTGCGCGCCGAGACTTCCCGCTGGAAGCGTCACATCGCGGAGGAAGTCTGAGCGCC
 GGGACCGACTGCAGAGGCAGGCGTTCGAGGAGATCATTCTGCAGTATACCAAGTTGCTGGAAAAGTCAGA
 TCTTCATTCAAGTATTGACCCAGAAAACAAGCAGAAAAGCATGACATGCCAAATAGGCATGAAATAAGT
 CCTGGACATGATGGTGCCTGGAATGATAGTCAACTACAAGAAATGGCCAGTTGAGGATCAAAACCCAGG
 AAGAGCTGACCGAACTGCACAAGAAGCGTGGGAGTTAGCTCAGTTGGTATTGACCTGAACAACCAAT
 GCAGCAGAAGGACAAGGAGATACAGATGAATGAAGCAAAGATTTTCGGAGTATTTACAGACCATCTCTGAC
 CTGGAGACAACTGCCTGGACCTGCGCACCAACTGCAGGACCTCGAGGTAGCCAACCAGACCCTGAAGG
 ATGAGTATGACGCCCTGCAGATTACTTTACTGCCCTAGAAGAGAAAAGTACTGAGGAACTACTGAGGAGAA
 CCAGGAACTGGTACCAGATGGATGGCTGAGAAGGCCAAGAAGCCAATCGCCTCAATGCAGAGAATGAG
 AAGGACTCCAGGAGGCGTCAAGCACGGCTGCAGAAGGAGCTTGCAGAAGCAGCAAAGGAACCTCTACCTG
 TTGAACAGGATGATGACATTGAAGTCATTGTGGATGAGACCTCAGACCACACAGAAGAGACCTCTCCCGT
 CCGAGCTGTCAGCAGAGCAGCTACTAAGCGACTCTCGCAGCCTGCTGGAGGCCTTCTGGATTCTATCACT
 AATATCTTTGGGAGACGCTCTGTCTCTCCATCCAGTCCCCAGGATATCATGGACACTCATCTGCTT
 CTGGTAAAGATGTGAGAGTCCCAACTACTGCCTCGTATGTCTTCGATGCGCATGACGGAGAGGTCAACGC
 AGTGCAGTTCAGTCCAGGCTCCCGTTGCTGGCCACTGGAGGCATGGACCGCAGGGTGAACCTTTGGGAA
 GCATTCGGAGATAAATGTGAATCAAGGGCTCCCTGTCTGGCAGTAATGCTGGAATACAAGCATTGAAT
 TTGATAGTGTGGAGCTTACCTATTAGCAGCTTCAAATGATTTTGCAAGCCGAATCTGGACTGTGGATGA
 TTATCGATTACGGCACACACTCACAGGCCACAGCGGGAAGTCCCTCTCTGCCAAGTTCCTGCTGGACAAT
 GCACGGATTGTCTCAGGAAGTACGACCGGACCCTCAAACCTCTGGGATCTCCGCAGCAAAGTCTGCATAA
 AAACAGTGTTCAGGATCCAGCTGCAATGACATTGTTTGCAGTGAACAATGTGTAATGAGTGGACATTT
 TGACAAGAAAATTCGTTTCTGGGATATCCGGTCAGAGAGTGTGGTCCGAGAGATGGAACCTTTAGGGAA
 ATCACTGCTCTGGACCTAAACCCTGAGAGAAGTACTGCTCTGAGCTGCTCCCGTATGACCTGCTAAAAG
 TCATCGACCTCCGACAAATGCAGTCAAACAGACATTAGTGCCTGGATTCAAATGCGGCTCTGACTG
 GACCCGGGTTGTCTTTCAGCCCTGATGGCAGTTACGTGGCAGCAGGCTCAGCCGAGGGTTCTTTTATGTC
 TGGAGTGTCTGACAGGAAAGTGGAGAAGTTCTTTCAAACAGCACAGCTCTTCTATCAATGCGGTGG
 CGTGGGCCCTCGGGCTTACATGTTGTCAGTGTGGACAAAGGAAGCAGAGCTGTCTGTGGGCACAGCC
 TTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_029846

Insert Size: 1824 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: [NM_029846.4](#), [NP_084122.2](#)

RefSeq Size: 3149 bp

RefSeq ORF: 1824 bp

Locus ID: 77040

UniProt ID: [Q8C0J2](#)

Cytogenetics: 1 D

Gene Summary: Plays an essential role in autophagy: interacts with ATG12-ATG5 to mediate the conjugation of phosphatidylethanolamine (PE) to LC3 (MAP1LC3A, MAP1LC3B or MAP1LC3C), to produce a membrane-bound activated form of LC3 named LC3-II. Thereby, controls the elongation of the nascent autophagosomal membrane (PubMed:18849966, PubMed:12665549, PubMed:24954904, PubMed:24553140, PubMed:23392225). Regulates mitochondrial antiviral signaling (MAVS)-dependent type I interferon (IFN-I) production (By similarity). Negatively regulates NOD1- and NOD2-driven inflammatory cytokine response (PubMed:24238340). Instead, promotes with NOD2 an autophagy-dependent antibacterial pathway. Plays a role in regulating morphology and function of Paneth cell.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2, also known as Apg16Lbeta) lacks an exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2, also known as Apg16Lbeta) is shorter than 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.