

Product datasheet for **MC228389**

Atg16l1 (NM_001205392) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg16l1 (NM_001205392) 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: >MC228389 representing NM_001205392
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGTCGGCCTGCGCGCCGAGACTTCCCGCTGGAAGCGTCACATCGCGGAGGAAGTCTGAGCGCC
 GGGACCGACTGCAGAGGCAGCGTTCGAGGAGATCATTCTGCAGTATACCAAGTTGCTGGAAAAGTCAGA
 TCTTCATTCAAGTATTGACCCAGAACTACAAGCAGAAAAGCATGACATGCCAAATAGGCATGAAATAAGT
 CCTGGACATGATGGTGCCTGGAATGATAGTCAACTACAAGAAATGGCCAGTTGAGGATCAAACACCAGG
 AAGAGCTGACCGAACTGCACAAGAAGCGTGGGAGTTAGCTCAGTTGGTATTGACCTGAACAACCAAT
 GCAGCAGAAGGACAAGGAGATACAGATGAATGAAGCAAAGATTCGGAGTATTTACAGACCATCTCTGAC
 CTGGAGACAACTGCCTGGACCTGCGCACCAACTGCAGGACCTCGAGGTAGCCAACCAGACCCTGAAGG
 ATGAGTATGACGCCCTGCAGATTACTTTACTGCCCTAGAAGAGAACTGAGGAAAAGTACTGAGGAGAA
 CCAGGAACTGGTACCAGATGGATGGCTGAGAAGGCCAAGAAGCCAATCGCCTCAATGCAGAGAATGAG
 AAGGACTCCAGGAGCGTCAAGCACGGCTGCAGAAGGAGCTTGCAGAAGCAGCAAAGGAACCTCTACCTG
 TTGAACAGGATGATGACATTGAAGTCATTGTGGATGAGACCTCAGACCACACAGAAGAGACCTCTCCCGT
 CCGAGCTGTCAGCAGAGCAGCTACGAGACGCTCTGTCTTCCATCCCAGTCCCCAGGATATCATGGAC
 ACTCATCTGTTCTGGTAAAGATGTGAGAGTCCCAACTACTGCCTCGTATGTCTTCGATGCGCATGACG
 GAGAGGTCAACGCAGTGCAGTTCAGTCCAGGCTCCCGTTGCTGGCCACTGGAGGCATGGACCGCAGGGT
 GAACTTTGGGAAGCATTTCGGAGATAAATGTGAATCAAGGGCTCCCTGTCTGGCAGTAAATGCTGGAAT
 ACAAGCATTGAATTTGATAGTGTGGAGTTACCTATTAGCAGCTCAAATGATTTTGAAGCCGAATCT
 GGACTGTGGATGATTATCGATTACGGCACACACTCACAGGCCACAGCGGAAAGTCTCTGCCAAAGTT
 CCTGCTGGACAATGCACGGATTGTCTCAGGAAGTCACGACCGGACCCTCAAAGTCTGGGATCTCCGCAGC
 AAAGTCTGCATAAAAACAGTGTTTGCAGGATCCAGCTGCAATGACATTGTTTGCAGTGAACAATGTGTA
 TGAGTGGACATTTTGACAAGAAAATTCGTTTCTGGGATATCCGGTTCAGAGAGTGTGGTCCGAGAGATGGA
 ACTGTTAGGGAAGATCACTGCTCTGGACCTAAACCCTGAGAGAACTGAGCTCCTGAGCTGCTCCCGTAT
 GACCTGCTAAAAGTATCGACCTCCGGACAAATGCAGTCAAACAGACATTCAGTGCAGCTGGATTCAAAT
 GCGGCTCTGACTGGACCCGGTTGTCTTACGCCCTGATGGCAGTTACGTGGCAGCAGGCTCAGCCGAGGG
 TTCTCTTTATGTCTGGAGTGTGCTGACAGGAAAGTGGAGAAGGTTCTTTCAAACAGCACAGCTCTTCT
 ATCAATCGGTTGGCTGGCCCCCTCGGGCTTACATGTTGTGAGTGGCAAAGGAAGCAGAGCTGTGC
 TGTGGCACAGCCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001205392
- Insert Size:** 1767 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001205392.1](#), [NP_001192321.1](#)

RefSeq Size: 3075 bp

RefSeq ORF: 1767 bp

Locus ID: 77040

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 (3, also known as Apg16Lalpha) lacks two consecutive exons in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3, also known as Apg16Lalpha) is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.