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Product datasheet for MC218115

Atg16l1 (BC049122) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg16l1 (BC049122) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg16l1
Synonyms:	WDR30, Atg16l
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

Fully Sequenced ORF:

>BC049122
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGTCGGGCCTGCGCGCCGCAGACTTTCCCCGCTGGAAGCGTCACATCGCGGAGGAACTGAGGCGCC
GGGACCGACTGCAGAGGCAGGCGTTCGAGGAGATCATTCTGCAGTATACCAAGTTGCTGGAAAAGTCAGA
TCTTCATTCAGTATTGACCCAGAAACTACAAGCAGAAAAGCATGACATGCCAAATAGGCATGAAATAAGT
CCTGGACATGATGGTGCGTGGAATGATAGTCAACTACAAGAAATGGCCCAGTTGAGGATCAAACACCAGG
AAGAGCTGACCGAACTGCACAAGAAGCGTGGGGAGTTAGCTCAGTTGGTGATTGACCTGAACAACCAAAT
GCAGCAGAAGGACAAGGAGATACAGATGAATGAAGCAAAGATTTCGGAGTATTTACAGACCATCTCTGAC
CTGGAGACAAACTGCCTGGACCTGCGCACCAAACTGCAGGACCTCGAGGTAGCCAACCAGACCCTGAAGG
ATGAGTATGACGCCCTGCAGATTACTTTTACTGCCCTAGAAGAGAAACTGAGGAAAACTACTGAGGAGAA
CCAGGAACTGGTCACCAGATGGATGGCTGAGAAGGCCCAAGAAGCCAATCGCCTCAATGCAGAGAATGAG
AAGGACTCCAGGAGGCGTCAAGCACGGCTGCAGAAGGAGCTTGCAGAAGCAGCAAAGGAACCTCTACCTG
TTGAACAGGATGATGACATTGAAGTCATTGTGGATGAGACCTCAGACCACACAGAAGAGACCTCTCCCGT
CCGAGCTGTCAGCAGAGCAGCTACTAAGCGACTCTCGCAGCCTGCTGGAGGCCTTCTGGATTCTATCACT
AATATCTTTGGTCTGTCCGAATCTCCCCTTTTGGGACATCATTCTTCTGATGCTGCCAGGAGACGCTCTG
TCTCTTCCATCCCAGTCCCCCAGGATATCATGGACACTCATCCTGCTTCTGGTAAAGATGTGAGAGTCCC
AACTACTGCCTCGTATGTCTTCGATGCGCATGACGGAGAGGTCAACGCAGTGCAGTTCAGTCCAGGCTCC
CGGTTGCTGGCCACTGGAGGCATGGACCGCAGGGTGAAACTTTGGGAAGCATTCGGAGATAAATGTGAAT
TCAAGGGCTCCCTGTCTGGCAGTAATGCTGGAATTACAAGCATTGAATTTGATAGTGCTGGAGCTTACCT
ATTAGCAGCTTCAAATGATTTTGCAAGCCGAATCTGGACTGTGGATGATTATCGATTACGGCACACACTC
ACAGGCCACAGCGGGAAAGTCCTCTCTGCCAAGTTCCTGCTGGACAATGCACGGATTGTCTCAGGAAGTC
ACGACCGGACCCTCAAACTCTGGGATCTCCGCAGCAAAGTCTGCATAAAAACAGTGTTTGCAGGATCCAG
CTGCAATGACATTGTTTGCACTGAACAATGTGTAATGAGTGGACATTTTGACAAGAAAATTCGTTTCTGG
GATATCCGGTCAGAGAGTGTGGTCCGAGAGATGGAACTGTTAGGGAAGATCACTGCTCTGGACCTAAACC
CTGAGAGAACTGAGCTCCTGAGCTGCTCCCGTGATGACCTGCTAAAAGTCATCGACCTCCGGACAAATGC
AGTCAAACAGACATTCAGTGCGCCTGGATTCAAATGCGGCTCTGACTGGACCCGGGTTGTCTTCAGCCCT
GATGGCAGTTACGTGGCAGCAGGCTCAGCCGAGGGTTCTCTTTATGTCTGGAGTGTGCTGACAGGGAAAG
TGGAGAAGGTTCTTTCAAAACAGCACAGCTCTTCTATCAATGCGGTGGCGTGGGCCCCCTCGGGCTTACA
TGTTGTCAGTGTGGACAAAGGAAGCAGAGCTGTGCTGTGGGCACAGCCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC049122

Insert Size: 1872 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:	BC049122, AAH49122
RefSeq Size:	3132 bp
RefSeq ORF:	1871 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]