

Product datasheet for **MC216889**

Atg14 (NM_172599) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg14 (NM_172599) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg14
Synonyms:	4832427M01; Atg14L; D14Ertd114e; D14Ertd436e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216889 representing NM_172599
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGTCTCCAGTGGGAAGGGATCTTGGACGCCGAGGCTCCTGGTTTTGGGCCGCGGGCGCTAGCAC
GGGACCTGGTGGACTCGGTGGACGACGCCGAGGGCCTTTACGTGGCTGTTGAGCGGTGTCCTCTGTGCAA
CACCACCTCGCCGCGGTTGACTTGCGCCAAGTGCCTCCAGAGCGGTGATTTTCGTCTATTTTCGACGGCCGC
GACCGGGAGAGGTTTATTGACAAGAAGGAAAGACTAAGCCAACCTAAGAACAAGCAAGAAGAAATTCAGA
AAGAAGTACTAAAAGCTATGGAAGGAAAGCGGCTTACAGATCAGTTGAGATGGAAAATAATGTCATGCAA
GATGAGGATTGAACAGCTGAAGCAAACAATATGTAAGGAAATGAGGAAATGAAGAAAAATCTGAAGGT
CTCCTCAAGAACAAGGAAAAGAACCAGAAGCTTTACAGCCGAGCACAGCGGCCACCAAGAGAAAAAGGAGA
AGATTCAGCGGCACAACCGCAAGCTTGGGGACCTGGTGGAGAAGAAGACCATTGACTTGAAGAGTACTA
TGAGCGGTTGGCGCGGCTTCAAGGTACACATCCTAGAGCTCACCTCCATCATATTCCTCAATCGACGAA
GTGAAGACTTCTGGGAGAGACCTGCAGACGTGTCTTCAGAGACTGACAGTGCCATGACCTCAAGCATGG
TGAGCAAGCTTGCTGAGGCCCGGAGGACAACCTACCTCTCTGGAAGATGGGTCTGTGATGACCACAATGG
TGACACCAGCATTAGCATCACAGGCCCGTGGATTAGCCTACCAAACAACGGGGACTACTCTGCTTACTAC
AATTGGGTAGAAGAGAAGAAAACAACCCAAGGACCTGACATGGAGCATAACAACCCCGCCTACACTATCA
GCGCCGCGCTGGGCTACGCCACGCAGCTCGTCAACATTGTGTCTCACATACTTGACATCAATCTTCCCAA
AAAGCTGTGCAACAGCGAGTTCTGTGGCGAAAACCTCAGCAAGCAGAACTGACACGCGCAGTGAGGAAA
CTGAACGCAAACATCCTTTACCTTTGTTCTTCTCAGCATGTAATCTGGATCAGTTGCAACCACTGCACA
GACTCAGGAACCTGATGCACTTGGTCAGCCCGCTCTGAGCACCTAGGCAGGTGAGGACCTTTGAAGT
TCGAGCAGACCTCGAGGAGTCCATGGAATTTGTGGACCCTGGAGTTGCTGGAGAATCAGACGCGAGTGGA
GATGAGCGTGAAGCGATGAGGAGACTGACCTGGGCACAGACTGGGAGAACCTGCCAAGCCCGGATTCT
GTGACATCCCTTCCAGCCGGTGAAGTGTCCAGAGCCAGAGCACCCAGGTGTCCCCACCCATTGCCAG
CAGCAGCGCTGGTGGGATGATCTCCTCCGCTGCGGCTCGGTGACCTCTTGGTTCAAAGCTTACTGGA
CACCG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_172599

Insert Size: 1479 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:	NM_172599.4 , NP_766187.1
RefSeq Size:	3466 bp
RefSeq ORF:	1479 bp
Locus ID:	100504663
UniProt ID:	Q8CDJ3
Cytogenetics:	14 24.6 cM
Gene Summary:	Required for both basal and inducible autophagy (PubMed:19270696, PubMed:19270693). Determines the localization of the autophagy-specific PI3-kinase complex PI3KC3-C1 (By similarity). Plays a role in autophagosome formation and MAP1LC3/LC3 conjugation to phosphatidylethanolamine (PubMed:19270696, PubMed:19270693). Promotes BECN1 translocation from the trans-Golgi network to autophagosomes (By similarity). Enhances PIK3C3 activity in a BECN1-dependent manner. Essential for the autophagy-dependent phosphorylation of BECN1 (By similarity). Stimulates the phosphorylation of BECN1, but suppresses the phosphorylation of PIK3C3 by AMPK (PubMed:23332761). Binds to STX17-SNAP29 binary t-SNARE complex on autophagosomes and primes it for VAMP8 interaction to promote autophagosome-endolysosome fusion (By similarity). Modulates the hepatic lipid metabolism (PubMed:22992773).[UniProtKB/Swiss-Prot Function]