

Product datasheet for **MC228822**

Atg7 (NM_001253717) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg7 (NM_001253717) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg7
Synonyms:	1810013K23Rik; Agp7; Apg7l; Atg7l; Gm21553
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228822 representing NM_001253717
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATACAGGCCTCTGAAAAATCCCACGAGCACAGTGGTGAGGCCAACTCCACTGCTTTCCTGCCA
 TGAGGCTTTCCTCATCTGGATGTGAGCACCTGACAGTGAGGCTGGTAAGAACAGTAGCCATGGGGGACCC
 TGGACTGGCCAAGTTGCAGTTCGCCCCCTTTAATAGTGCCTGGACGTTGGCTTCTGGCAGAACTGACC
 CAGAAGAAGTTGAACGAGTACCGCCTGGACGAGGCACCCAAAGACATCAAGGGCTATTACTACAATGGTG
 ACTCTGCTGGTCTGCCACCCGCTTGACGTTGGAGTTCAGTGCTTTTGACATGAGTGCCTCCACGCCTGC
 CCACTGCTGCCCGCCATGGGAACCTGCACAACACCAACACACTTGAGGCTTTAAGACAGCAGACAAG
 AAGCTCCTTCTGGAGCAGTCAGCAAATGAGATCTGGGAAGCCATAAAGTCAGGTGCTGCTCTCGAAAACC
 CCATGCTCCTCAACAAGTTCTGCTCCTGACCTTCGCGGACCTAAAGAAGTACCCTTCTACTACTGGTT
 TTGCTGCCCGCCCTCTGTCTTCTGAGAGCATCCCTCTAATCCGGGGACCTGTGAGCTTGATCAAAGG
 CTTTACCACAAAACAGATCCAGGCCCTGGAGCATGCCTATGATGATCTGTGTCGAGCCGAAGGCGTACGG
 CCCTGCCCTACTTCTTATTCAAGTACGATGACGACACTGTTCTGGTCTCCTTGCTCAAACACTACAGTGA
 TTTCTTCAAAGGTCAAAGGACAAAGATAACAGTTGGTGTGTACGATCCCTGTAACCTAGCCAGTACCCT
 GGATGGCCTTTGAGGAATTTTTGGTCTGGCAGCCACAGATGGAGCGGCAGTTTCCAGTCCGTTGAAG
 TCCTCTGCTTTCGGGACCGCACCATGCAGGGAGCTAGAGACGTGACACATAGCATCATCTTTGAAGTAA
 ACTTCCAGAAATGGCATTAGCCAGATTGTCTAAAGCTGTTGGCTGGGAGAAGAACCAGAAAGGAGGC
 ATGGGTCCGAGGATGGTGAACCTCAGTGGATGTATGGACCCAAAAGGCTGGCTGAGTCACTGTGGATC
 TGAATCTCAAGCTGATGTGCTGGCAGTTGGTCCCACCTTGACTTGGACAAGGTCGTGTCTGTCAAGTG
 CCTGCTGCTGGGAGCTGGTACCTTGGGGTGAATGTGGCTAGGACACTGATGGGCTGGGGCGTCAGACAT
 GTCACCTTTGTGGATAACGCCAAGATCTCCTACTCCAATCCCGTGGAGCAGCCTCTGTATGAATTTGAAG
 ATTGTCTAGGGGGTGGCAAGCCCAAGGCCCTGGCTGCAGCAGAGCGGCTACAGAAAATATTTCCCGGAGT
 GAATGCCAGAGGGTTCAACATGAGCATCCCATGCCAGGACACCCTGTGAACCTTCTGACGTCACGATG
 GAGCAGGCCCGCAGAGATGTGGAGCAGCTGGAGCAGCTCATTGATAACCATGATGTCATCTTCTGCTAA
 TGGACACCAGGGAGAGCCGGTGGCTTCTACTGTTATTGCAGCCAGCAAGCGAAAGCTGGTCATCAACGC
 TGCCTTGGGGTTTGATACCTTTGTGTCATGAGACATGGCCTGAAGAAACCAAGCAGCAGGGAGCCGGA
 GACCTCTGCCAAGCCATCTGTAGCACCTGCTGACCTGGGCTCCTCACTTTTGGCAACATCCCTGGAT
 ACAAGCTTGGCTGCTACTTCTGCAATGATGTGGTGGCTCCAGGAGATTCAACCAGAGACCCGACTCTGGA
 CCAGCAGTGCACAGTGGCCGCCAGGCCCTGGCCGTGATTGCAGGTGCCCTGGCTGTGGAGCTGATGGTC
 TCTGTCCTGCAGCATCCTGAGGGGGGCTACGCCATCGCCAGCAGCAGTGTGACCGCATGAATGAGCCTC
 CCACCTCGCTGGGACTTGTGCCTCACCAGATCCGGGGTTTTCTGTACGGTTCGATAATGTTCTTCTGT
 CAGCCTGGCATTGATAAATGTACAGCCTGTTACCCAAAGTCTTGTATCAGTACGAGCGAGAAGGATTC
 ACCTTCTAGCGAAGGTTTTAACTCCTCACATTCCTTCTAGAAGACTTGACCGGCTTACCCTGCTCC
 ATCAAGAGACCAAGCTGCTGAGATCTGGGACATGAGTGACGAGGAGACTGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001253717

Insert Size: 2226 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001253717.1 , NP_001240646.1
RefSeq Size:	3925 bp
RefSeq ORF:	2226 bp
Locus ID:	74244
UniProt ID:	Q9D906
Cytogenetics:	6 E3
Gene Summary:	<p>This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).</p>