

## Product datasheet for **SC127887**

### Apg10 (ATG10) (NM\_031482) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apg10 (ATG10) (NM_031482) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apg10
Synonyms:	APG10; APG10L; pp12616
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127887 sequence for NM_031482 edited (data generated by NextGen Sequencing)

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ATGGAAGAAGATGAGTTCATTGGAGAAAAACATTCCAACGTTATTGTGCAGAATTCATT
AAACATTCACAACAGATAGGTGATAGTTGGGAATGGAGACCATCAAAGGACTGTTCTGAT
GGCTACATGTGCAAAATACACTTTCAAATTAAGAATGGGTCTGTGATGTCACATCTAGGA
GCATCTACCCATGGACAGACATGTCTTCCCATGGAGGAGGCTTTCGAGCTACCCTTGGAT
GATTGTGAAGTGATTGAAACTGCAGCAGCGTCCGAAGTGATTAATATGAGTATCATGTC
TTATATTCCTGTAGCTACCAAGTGCCTGTACTTTACTTTAGGGCAAGCTTTTTAGATGGG
AGACCTTTAACTCTGAAGGACATATGGGAAGGAGTTCATGAGTGCTATAAGATGCGACTG
CTACAGGGACCATGGGACACTATTACGCAACAGGAACATCCAATACTTGGCAACCCTTT
TTTGACTTCATCCCTGCAAGACGAATGAATTCATGACTCCTGTATTAAGAATTCTCAG
AAAATCAATAAGAATGTCAACTATATCACATCATGGCTGAGCATTGTAGGCCAGTTGTT
GGGCTGAATCTACCTCTGAGTTATGCCAAAGCAACGTCTCAGGATGAACGAAATGTCCTT
TAA
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Clone variation with respect to NM\_031482.4



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_031482 unedited CGGCCGCGAATTCAGATCTNNNNCCGGTCCGGAATCCCGGGATATCGTCGACCCACGCG TCCGACCTGACTGAAGGAGGCCGCGGACCTGACTGAAGGAGGCCACGGCCACTTCTGGTT GGCCTCGGGGCGCTGGCTCGGCTCTTCTCCGCCCTCGAGGCCCGCAGTCCCATCA TTCAGTTCCTAGGGTACCCGGCCCGCAGTGGCTCGCAGGGCGCTGGGTCCTTCTCCC AAGCTCTCTCCCTGGCCGCTCGCCCGCCCTCGCCGGGCTGGGCTCGGGGTCAGG GGCCGAGCGGAGAGGGTTATCATTAAACATGGAAGAAGATGAGTTCATTGGAGAAAAAC ATTCCAACGTTATTGTGAGAATTCATTAACATTACACAACAGATAGGTGATAGTTGGGA ATGAGACCATCAAAGGACTGTTCTGATGGCTACATGTGCAAAATACACTTTCAAATTA GAAATGGTCTGTGATGTACAATCTAGGGAGCATTCTACCCCATGGGACAGGACATGGT TTTTCCCAAGGGAGGAAGAGCTTTTTCAAGACTTACCCCTTTGGGATGAATTTTGGAA AAAGTGATTTGAAAAATTGGCCGGCAAACCGTCCCAAAATTGGTTTTTAAAAATTTG GGAAGGTTTCAAGGGGGCTTAAAAAATCCCCGGGGAGACTTAACCCCAAATTGGCCC CCGGGCACCTTTTTAATTTTTAGGGGCAAAGCCTTTTTTTTTAAAAAGGGGGAGGAAA ATTTTTTAAACACTTTAAGGGGCAAATATTATGGGGGAAAGGAATTTTTAAGGAGGGG GCCTCTAAAAAAAACCAACTGCCCCCGGGGGGCCACATGGGGACAAAA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_031482
<b>Insert Size:</b>	1800 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_031482.3</a> , <a href="#">NP_113670.1</a>
<b>RefSeq Size:</b>	1818 bp
<b>RefSeq ORF:</b>	663 bp
<b>Locus ID:</b>	83734
<b>UniProt ID:</b>	<a href="#">Q9H0Y0</a>
<b>Cytogenetics:</b>	5q14.1-q14.2

**Gene Summary:**

Autophagy is a process for the bulk degradation of cytosolic compartments by lysosomes. ATG10 is an E2-like enzyme involved in 2 ubiquitin-like modifications essential for autophagosome formation: ATG12 (MIM 609608)-ATG5 (MIM 604261) conjugation and modification of a soluble form of MAP-LC3 (MAP1LC3A; MIM 601242), a homolog of yeast Apg8, to a membrane-bound form (Nemoto et al., 2003 [PubMed 12890687]).[supplied by OMIM, Mar 2008]

Transcript Variant: This variant (2) lacks an exon in the 5' UTR, as compared to variant 1.