

## Product datasheet for **SC324798**

### Apg10 (ATG10) (NM\_001131028) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apg10 (ATG10) (NM_001131028) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apg10
Synonyms:	APG10; APG10L; pp12616
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324798 representing NM_001131028. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAGAAGATGAGTTCATTGGAGAAAAACATTCCAACGTTATTGTGCAGAATTCATTAACATTC
CAACAGATAGGTGATAGTTGGGAATGGAGACCATCAAAGGACTGTTCTGATGGCTACATGTGCAAAATA
CACTTTCAAATTAAGAATGGGTCTGTGATGTCACATCTAGGAGCATCTACCCATGGACAGACATGTCTT
CCCATGGAGGAGGCTTTTCGAGCTACCCCTGGATGATTGTGAAGTGATTGAACTGCAGCAGCGTCCGAA
GTGATTAATATGAGTATCATGTCTTATATTCTGTAGCTACCAAGTGCCTGTACTTTACTTTAGGGCA
AGCTTTTAGATGGGAGACCTTTAACTCTGAAGGACATATGGGAAGGAGTTCATGAGTGCTATAAGATG
CGACTGCTACAGGACCATGGGACACTATTACGCAACAGGAACATCCAATACTTGGGCAACCCTTTTTT
GTACTTCAATCCCTGCAAGACGAATGAATTCATGACTCCTGTATTAAGAATTCTCAGAAAATCAATAAG
AATGTCAACTATATCACATCATGGCTGAGCATTGTAGGGCCAGTTGTTGGGCTGAATCTACCTCTGAGT
TATGCCAAGCAACGTCTCAGGATGAACGAAATGTCCCTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001131028
Insert Size:	663 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).



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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001131028.1</a>
<b>RefSeq Size:</b>	2432 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
<b>MW:</b>	25.3 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) is the longer transcript. Both variants 1 and 2 encode the same protein.</p>