

## Product datasheet for **SC306912**

### **ATG9B (NM\_173681) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ATG9B (NM_173681) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATG9B
Synonyms:	APG9L2; NOS3AS; SONE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC306912 representing NM\_173681.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTGAGCCGAATGGGCTGGGGGGGAGAAGAAGGCGGGCTGGGGCGGTGGGGAGATCTGGGGCCCGGA
TCGGTGGCCCTCCTCCCATGCCACTGCCACCTCCTCCTCCTCATGCCGGGACCTGGGGAGGG
AGGATCTCCATCTTCTCTGTCCCTGCCCTCATAACAAGAAGCTCCCCCTCCTATTTCCCTCCC
ACCGCAGGGCCCCCTTGCTCAGTGCTACAGGGACAGGGCTTCTCAGTCTTGCCACAGTCTCCT
ATCCCAGCACCCCCAACACAGGCTCAACCTGCAATGACACCTGCCTCTGCATCTCCTCCTGGGA
TCCCACTCACCCACCCTGGCCCCGCAACCCCACTCCCTCACAGCAGTGCCCCAGGACTCTCCT
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ACTGAGGCTCGTGTCTCAGCGTGGGAGGACGGCAAGACTGAGCTTTCTTTGATGCGGTTCTCCCTG
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TCTTGCACTGACTGA
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_173681

<b>Insert Size:</b>	2775 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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_173681.5</a>
<b>RefSeq Size:</b>	4577 bp
<b>RefSeq ORF:</b>	2775 bp
<b>Locus ID:</b>	285973
<b>Cytogenetics:</b>	7q36.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	101 kDa

**Gene Summary:**

This gene functions in the regulation of autophagy, a lysosomal degradation pathway. This gene also functions as an antisense transcript in the posttranscriptional regulation of the endothelial nitric oxide synthase 3 gene, which has 3' overlap with this gene on the opposite strand. Mutations in this gene and disruption of the autophagy process have been associated with multiple cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2012]

Transcript Variant: This variant (1) represents the longer transcript and encodes the supported protein. This transcript contains splicing in the 3' UTR that makes it a candidate for nonsense-mediated mRNA decay (NMD). The protein is thought to be valid, but it may be expressed from alternate transcript variants.