

Product datasheet for **SC335263**

Apg3 (ATG3) (NM_001278712) Human Untagged Clone

Product data:

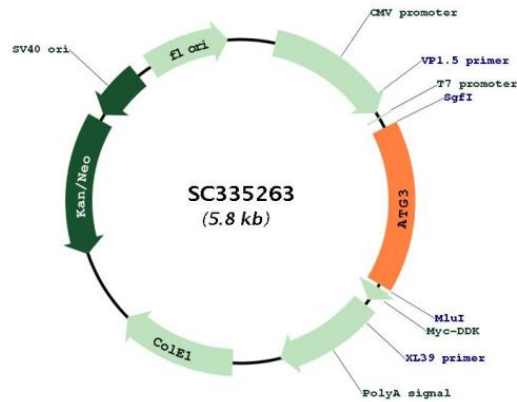
Product Type:	Expression Plasmids
Product Name:	Apg3 (ATG3) (NM_001278712) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATG3
Synonyms:	APG3; APG3-LIKE; APG3L; PC3-96
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335263 representing NM_001278712. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCAGAAATGTGATTAACTGTGAAGGGAAAGGCACTGGAAGTGGCTGAGTACCTGACCCCGTCTC
AAGGAATCAAAGTTTAAGGAAACAGGTGAATTACCCAGAAAGATTTGTGGCAGCTGGAGATCACCTA
GTCCACCACTGTCCAACATGGCAATGGGCTACAGGGGAAGAATTGAAAGTGAAGGCATACCTACCAACA
GGCAAACAATTTTGGTAACCAAAAATGTGCCGTGCTATAAGCGGTGCAAACAGATGGAATATTCAGAT
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TGCTCAGCACTATGTGAAGAGGAAGAAGATGAAGATGAAGGAGAAGCTGCAGATATGGAAGAATATGAA
GAGAGTGGATTGTTGAAACAGATGAGGCTACCCTAGATACAAGGAAAATAGTAGAAGCTTGTAAGCC
AAAAGTATGCTGGCGGTGAAGATGCTATTTTGC AAACGAGA ACTTATGACCTTTACATCACTTATGAT
AAATATTACCAGACTCCACGATTATGGTTGTTGGCTATGATGAGCAACGGCAGCCTTTAACAGTTGAG
CACATGTATGAAGACATCAGTCAGGATCATGTGAAGAAAACAGTGACCATTGAAAATCACCTCATCTG
CCACCACCTCCCATGTGTTCAAGTTCACCCATGCAGGCATGCTGAGGTGATGAAGAAAATCATTGAGACT
GTTGCAGAAGGAGGGGAGA ACTTGGAGTTCATATGTATCCTTCCCTGTATGTAAGATTAGTGGCAAAA
TGGCTGTTAACGATTTTTTTTTTTTGAGAAATTTAGTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001278712

Insert Size: 936 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:

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_001278712.1](#)

RefSeq Size: 3060 bp

RefSeq ORF: 936 bp

Locus ID: 64422

UniProt ID: [Q9NT62](#)

Cytogenetics: 3q13.2

Protein Pathways: Regulation of autophagy

MW: 35.5 kDa

Gene Summary: This gene encodes a ubiquitin-like-conjugating enzyme and is a component of ubiquitination-like systems involved in autophagy, the process of degradation, turnover and recycling of cytoplasmic constituents in eukaryotic cells. This protein is known to play a role in regulation of autophagy during cell death. A pseudogene of this gene is located on chromosome 20. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]

Transcript Variant: This variant (2) contains a 3' terminal exon that extends past a splice site that is used in variant 1 that results in an early stop codon and a different 3' UTR, compared to variant 1. It encodes a protein which is shorter at the C-terminus (isoform 2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.