

Product datasheet for **SC333451**

ATG5 (NM_001286111) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATG5 (NM_001286111) Human Untagged Clone
Tag: Tag Free
Symbol: ATG5
Synonyms: APG5; APG5-LIKE; APG5L; ASP; hAPG5; SCAR25
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC333451 representing NM_001286111.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

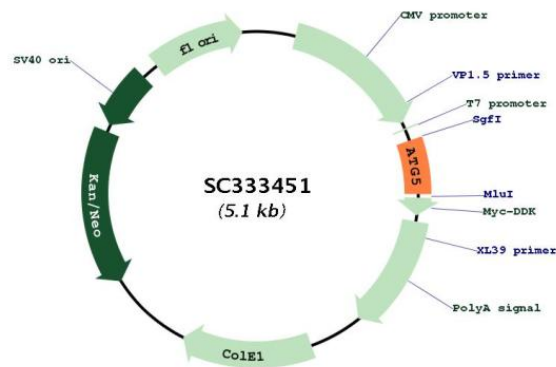
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACAGATGACAAAGATGTGCTTCGAGATGTGTGGTTTGGACGAATCCAATTGTTTCACGCTATAT
CAGGATGAGATAACTGAAAGGGAAGCAGAACCATACTATACAGATTTGACCAGTTTTGGCCATCAATC
GGAAACTCATGGAATATCCTGCAGAAGAAAATGGATTTTCGTTATATCCCCTTTAGAATATATCAGACAA
CGACTGAAAGACCTTTCATTCAGAAGCTGTTTCGTCTGTGGCTGCAGATGGACAGTTGCACACACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001286111

Insert Size: 276 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:	<u>NM_001286111.1</u>
RefSeq Size:	2890 bp
RefSeq ORF:	276 bp
Locus ID:	9474
UniProt ID:	<u>Q9H1Y0</u>
Cytogenetics:	6q21
Protein Families:	Druggable Genome
Protein Pathways:	Regulation of autophagy, RIG-I-like receptor signaling pathway
MW:	10.9 kDa
Gene Summary:	<p>The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. Several transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (5) lacks three alternate exons in the 5' coding region, which results in a frameshift in the remaining coding region, compared to variant 1. The encoded isoform (d) has the same N-terminus but is otherwise distinct and shorter than isoform a.</p>