

Product datasheet for **SC334509**

ATG5 (NM_001286108) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG5 (NM_001286108) 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:	>NCBI ORF sequence for NM_001286108, the custom clone sequence may differ by one or more nucleotides

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ATGACAGATGACAAAGATGTGCTTCGAGATGTGTGGTTTGGACGAATCCAACCTGTTTCACGCTATATC
AGGATGAGATAACTGAAAGGGAAGCAGAACCATACTATTTGCTTTTGCCAAGAGTAAGTTATTTGACGTT
GGTAACTGACAAAGTAAAAAGCACTTTTCAGAAGGTTATGAGACAAGAAGACATTAGTGAGATATGGTTT
GAATATGAAGGCACACCACTGAAATGGCATTATCCAATTGGTTTGCTATTTGATCTTCTTGCATCAAGTT
CAGCTCTTCCTTGAACATCACAGTACATTTTAAAGAGTTTTCCAGAAAAAGACCTTCTGCACTGTCCATC
TAAGGATGCAATTGAAGCTCATTTTATGTCATGTATGAAAGAAGCTGATGCTTTAAAACATAAAAGTCAA
GTAATCAATGAAATGCAGAAAAAAGATCACAAGCAACTCTGGATGGGATTGCAAAATGATTTGACCAGTT
TTGGGCCATCAATCGGAAACTCATGGAATATCCTGCAGAAGAAAATGGATTTTCGTTATATCCCCTTTAGA
ATATATCAGACAACGACTGAAAGACCTTTCATTGAGAAGCTGTTTCGTCCTGTGGCTGCAGATGGACAGT
TGCACACACTAG
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001286108
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).



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Reconstitution Method:	<ol style="list-style-type: none">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_001286108.1, NP_001273037.1</u>
RefSeq Size:	3256 bp
RefSeq ORF:	642 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
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 (4) uses an alternate splice site that causes a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (c) has a distinct C-terminus and is shorter than isoform a.</p>