

Product datasheet for **SC333360**

Apg12 (ATG12) (NM_001277783) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apg12 (ATG12) (NM_001277783) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATG12
Synonyms:	APG12; APG12L; FBR93; HAPG12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333360 representing NM_001277783. Blue=Insert sequence Red=Cloning site Green=Tag(s)

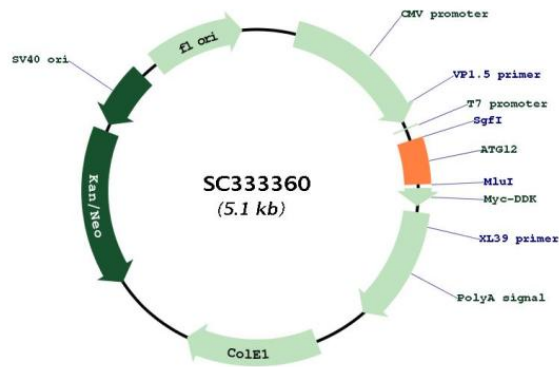
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGAGGAGCCGAGTCTGTGTTGCAGCTTCTACTTCAATTGCTGCTGGAGGGGAAGGACTTACG
GATGTCTCCCCAGAAACAACCACCCCGAGCCCCCGTCTTCCGCTGCAGTTTCCCCGGGAACAGAGGAA
CCTGCTGGCGACACCAAGAAAAAATTTATTTATGTGAATCAGTCCTTTGCTCCTCCCCAGACCAAGA
AGTTGGAACTCTCTATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_001277783

Insert Size: 225 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_001277783.1](#)

RefSeq Size: 4193 bp

RefSeq ORF: 225 bp

Locus ID: 9140

UniProt ID: [O94817](#)

Cytogenetics: 5q22.3

Protein Pathways: Regulation of autophagy, RIG-I-like receptor signaling pathway

MW: 7.7 kDa

Gene Summary: Autophagy is a process of bulk protein degradation in which cytoplasmic components, including organelles, are enclosed in double-membrane structures called autophagosomes and delivered to lysosomes or vacuoles for degradation. ATG12 is the human homolog of a yeast protein involved in autophagy (Mizushima et al., 1998 [PubMed 9852036]).[supplied by OMIM, Mar 2008]

Transcript Variant: This variant (5) lacks an exon in the coding region compared to variant 1. The resulting protein (isoform 2) is shorter and has a distinct C-terminus 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.