

Product datasheet for **SC315623**

ATG9A (NM_001077198) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG9A (NM_001077198) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATG9A
Synonyms:	APG9L1; mATG9; MGD3208
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

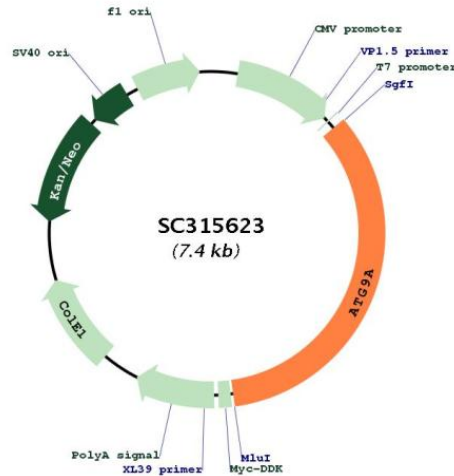


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Fully Sequenced ORF: >SC315623 representing NM_001077198.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCAGTTTGACACTGAATACCAGCGCCTAGAGGCCTCTATAGTGATTCACCCCCAGGGGAGGAG
GACCTGTTGGTGCACGTGCGCCGAGGGGAGCAAGTCACCTTGGCACCATTGAAAACCTTGACCTCTTC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001077198

Insert Size: 2520 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).

OTI Annotation: 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.

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_001077198.2](#)

RefSeq Size: 3910 bp

RefSeq ORF: 2520 bp

Locus ID: 79065

UniProt ID: [Q7Z3C6](#)

Cytogenetics: 2q35

Protein Families: Transmembrane

MW: 94.4 kDa

Gene Summary: Involved in autophagy and cytoplasm to vacuole transport (Cvt) vesicle formation. Plays a key role in the organization of the preautophagosomal structure/phagophore assembly site (PAS), the nucleating site for formation of the sequestering vesicle. Cycles between a juxta-nuclear trans-Golgi network compartment and late endosomes. Nutrient starvation induces accumulation on autophagosomes. Starvation-dependent trafficking requires ULK1, ATG13 and SUPT20H.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) and variant 2 encode the same protein.