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Product datasheet for SC322562

Apg10 (ATG10) (NM_031482) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apg10 (ATG10) (NM_031482) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apg10
Synonyms:	APG10; APG10L; pp12616
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

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>OriGene sequence for SC322562
ACCTGACTGAAGGAGGCCGCGGACCTGACTGAAGGAGGCCACGGCCACTTCTGGTTGGCC
TCGGGGCGCGCTGGCTCGGCTCTTCCTCCGCCCTCGAGGCCCCCGCAGTCCCATCATTCA
GTTCCGTAGGGTCACCGGCGCGGCAGTGGCCTCGCAGGGCGCTGGGTCCCTCTCCCCAGC
TCTCCTCCCCCTGGCCGCGTCGCCCCGCCCTCGCCGGGCTGGGCTGCGGGGTCAGGGGCC
GAGCGGAGAGGGTTATCATTTAACATGGAAGAAGATGAGTTCATTGGAGAAAAAACATTC
CAACGTTATTGTGCAGAATTCATTAAACATTCACAACAGATAGGTGATAGTTGGGAATGG
AGACCATCAAAGGACTGTTCTGATGGCTACATGTGCAAAATACACTTTCAAATTAAGAAT
GGGTCTGTGATGTCACATCTAGGAGCATCTACCCATGGACAGACATGTCTTCCCATGGAG
GAGGCTTTCGAGCTACCCTTGGATGATTGTGAAGTGATTGAAACTGCAGCAGCGTCCGAA
GTGATTAAATATGAGTATCATGTCTTATATTCCTGTAGCTACCAAGTGCCTGTACTTTAC
TTTAGGGCAAGCTTTTTAGATGGGAGACCTTTAACTCTGAAGGACATATGGGAAGGAGTT
CATGAGTGCTATAAGATGCGACTGCTACAGGGACCATGGGACACTATTACGCAACAGGAA
CATCCAATACTTGGGCAACCCTTTTTTGTACTTCATCCCTGCAAGACGAATGAATTCATG
ACTCCTGTATTAAAGAATTCTCAGAAAATCAATAAGAATGTCAACTATATCACATCATGG
CTGAGCATTGTAGGGCCAGTTGTTGGGCTGAATCTACCTCTGAGTTATGCCAAAGCAACG
TCTCAGGATGAACGAAATGTCCCTTAACAAGATTCTTCTATTGAGTTTAGGAATTGCGGC
ACGAAGAATGCCAAGAGTTTACCTGGCCAGCCCTGGCTTTAATAGGACTGATACCATGGA
ATATTTCATCTCACCAAGATGTGACATGGATTATTTTTCCCTTGGACACAAATGTCTACA
GCAACTGGTGTTTGATAGGCTGAATGTTTAGAAGAAACACTTCAAAGGGATACATCATGG
CCAGGCATGGTGGCTCACACCTGTAATCCAAGCACTTTGGGAGGCCAAGGTGGGAGCATC
ACTTGATCCTGGGAGTTCGAGACCAGCCTGGGCAACATGGTGAAACCCTGTCGGTACAAA
AAAATACAAAAATTTGCCTGTTTATGGTGGTGTGTTCCTGTAGTCCCAGCTCCCCAGGAG
GCTGAGGTGGGAGGTTGGCTTTAACCCAGGAGGCAGAGGTTGCAGTGAGCTGAGACTGTG
CCACTGCAGTCCAGCCTGGGTGACAGAGCCAGACACTGTCTCGGGAAAAAAAAAAAAAAA
GACACATCACTATAAATAGCAAAAAAACAAATCTAACTTATTAATACTAGGAATACCAAC
ATTATTAGGGCACTTGCAGGTTATTCTTTTCTAGGCCAAGTACTTCACTTCCATTTGTCT
GACATGGAGATTGAGGGAGAAATGTATTTGTGTGTTCATTTTAATGTAAGATATATAAAA
ATTAAATTACTGGATTTACCTGTCCCTGAAACTGGTGTTATAAACATGACCTATCTTAAG
TGATTTTCCCACAATCAAACTCAGGAACAATAGATTATTTCTGTTTTACTCCAAAAGAGA
GAGAGAGAGTGAGTGTGAGTGTGTGTGTGTGTGTGTGTGTATGTGTGGGTGTTTGTGTAG
ATAGTTGTAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_031482

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).

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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_031482.3, NP_113670.1
RefSeq Size:	1818 bp
RefSeq ORF:	663 bp
Locus ID:	83734
UniProt ID:	Q9H0Y0
Cytogenetics:	5q14.1-q14.2
Gene Summary:	Autophagy is a process for the bulk degradation of cytosolic compartments by lysosomes. ATG10 is an E2-like enzyme involved in 2 ubiquitin-like modifications essential for autophagosome formation: ATG12 (MIM 609608)-ATG5 (MIM 604261) conjugation and modification of a soluble form of MAP-LC3 (MAP1LC3A; MIM 601242), a homolog of yeast Apg8, to a membrane-bound form (Nemoto et al., 2003 [PubMed 12890687]).[supplied by OMIM, Mar 2008] Transcript Variant: This variant (2) lacks an exon in the 5' UTR, as compared to variant 1.

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