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Product datasheet for SC313005

ATG4A (NM_178270) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG4A (NM_178270) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATG4A
Synonyms:	APG4A; AUTL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313005 representing NM_178270. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGAGTCAGTTTTATCCAAGTATGAAGATCAGATTACTATTTTCACTGACTACCTAGAAGAATATCCA GATACAGATGAGCTGGTATGGATCTTAGGGAAGCAGCATCTCCTTAAAACAGAAAAATCTAAGCTGTTG TCTGATATAAGTGCTCGTCTATGGTTTACATACAGAAGGAAATTTTCACCAATTGGTGGAACGGGCCCT TCATCAGATGCTGGTTGGGGATGTATGCTACGCTGTGGACAGATGATGCTGGCTCAAGCCCTTATCTGT AGACACTTGGGAAGGGACTGGAGCTGGGAGAAACAAAAAGAACAACCCAAAGAATACCAACGCATCCTA CAGTGCTTCTTAGATAGAAAAGATTGTTGCTACTCTATCCATCAAATGGCACAAATGGGTGTAGGAGAA GGGAAATCAATTGGAGAATGGTTTGGACCAAATACAGTTGCACAGGTGTTAAAAAAACTTGCTTTATTT GACGAATGGAATTCCTTGGCTGTTTATGTTTCAATGGATAACACAGTGGTCATTGAAGATATCAAAAAA ATGTGCCGTGTCCTTCCCTTGAGTGCTGACACAGCTGGTGACAGGCCTCCCGATTCTTTAACTGCTTCA AACCAGAGTGACGAGCTCATCTTCTTGGACCCTCATACAACCCAGACCTTTGTTGACACTGAAGAGAAT GGAACGGTTAATGACCAGACTTTCCATTGCCTGCAGTCCCCACAGCGAATGAACATCCTAAACCTGGAT CCTTCAGTTGCATTGGGATTTTTCTGCAAAGAAGAAAAAGACTTTGATAACTGGTGTAGCCTTGTTCAG AAGGAAATTCTAAAGGAGAATTTAAGGATGTTTGAATTAGTTCAGAAACATCCATCACACTGGCCTCCC TTTGTACCTCCAGCCAAGCCAGAAGTGACAACCACTGGGGCAGAATTCATTGACTCTACTGAGCAACTG GAGGAGTTTGATCTGGAGGAAGATTTTGAGATTCTGAGTGTGTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI
ACCN:	NM_178270
Insert Size:	1011 bp

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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_178270.1
RefSeq Size:	2140 bp
RefSeq ORF:	1011 bp
Locus ID:	115201
UniProt ID:	Q8WYN0
Cytogenetics:	Xq22.3
Protein Families:	Protease
Protein Pathways:	Regulation of autophagy
MW:	38.6 kDa
Gene Summary:	Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. [provided by RefSeq, Mar 2016] Transcript Variant: This variant (2) encodes isoform b.