

Product datasheet for **SC126496**

ATG4C (NM_032852) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG4C (NM_032852) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATG4C
Synonyms:	APG4-C; APG4C; AUTL1; AUTL3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126496 sequence for NM_032852 edited (data generated by NextGen Sequencing)

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ATGGAGCTACAGGAACAGATGAAGTTGACAAGCTAAAAACCAATTTATATCTGCTTGG
AACAAACATGAAATATAGTTGGGTGTTGAAAACAAAGACGTATTTTAGTAGAAATTCCT
GTATTATTGCTTGAAAAATGTTACCATTTTAAATATGAAGATGAAGATAAAACGTTACCT
GCAGAGTCGGGATGTACAATAGAGGATCACGTAATTGCAGGAAATGTAGAAGAATTCGT
AAAGATTTCACTTAGAATATGGCTGACCTACAGGGAAGAATCCCTCAAATAGAAGGC
TCAGCTTTGACAACAGACTGTGGGTGGGCTGCACATTGAGAAGTGGCCAGATGCTTTG
GCTCAAGGACTCATACTACACTTTCTTGGTAGAGCTTGGACCTGGCCTGATGCTTTGAAT
ATTGAAAATTCAGACTCTGAATCATGGACTTCCCACACTGTCAAAAAATTTACTGCATCA
TTTGAAGCATCACTTTCAGGGGAAAGAGAATTCAAAACCCCAACAATTTCTCTGAAGGAA
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GCACAAGATTGTACAGTTTACAATTCTGATGTAATTGATAAACAGAGTGCTTCCATGACT
TCTGATAATGCAGATGACAAAGCTGTTATTATTCTAGTTCTGTTAGACTTGGTGAGAA
AGAACCAACACCGACTACTTAGAATTTGTGAAGGTATTTAAGCCTGGAATATTGTGTG
GGTATTATTGGTGGCAAACCTAAACAGTCATATTACTTTGCTGGATTTCAAGATGACAGT
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AGCTGTACAATAGGATTTTACTGTGCAAAATGTTCAAGGACTTCAAACGAGCTTCTGAAGAA
ATCACCAAGATGCTGAAATTTTCTTAAGGAGAAATATCCCTTATTTACTTTTGTAAAT
GGTCATTCAGAGACTATGATTTTACATCTACTACAACCAATGAAGAAGACCTTTTTTCA
GAGGATGAAAAGAAACAATTA AAAAGATTTAGCACGGAAGAGTTTGTCTTGTCTTAA

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Clone variation with respect to NM_032852.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032852 unedited TCCTATAGGGCGGCCGGAATTCGGCACGAGGCGGCGCTGAGGTCGGAACGTCTGCGTGT GTGCGGGCTGGTTTTGCGGCGGCTGCTGCTAGAGCTGGAGCATTGCGGGTTGGTGGCT CCTGCACATTTTACAGTTCTCCAGTCTTCTCTTTTCGTCAGTATAAAAGATTAAGTCT ACAGAAGAATGCAATCAAGTGATGGCTTTTCCTTTATAATTTGAATATGGAGGCTACAGG AACAGATGAAGTTGACAAGCTAAAACCAATTTATATCTGCTTGAACAACATGAAATA TAGTTGGGTGTTGAAAACAAAGACGTATTTTAGTAGAAATCTCCTGCCTTATTGCTCGG AAAACGTCACCATTTTAAATATGAAGATGAAGATAAACGTTACCTGCAGAGTTCCGATGT ACAATAGAGGATCACGTAATTGCAAGAAATGTACAAAAATTTTCGCAAAGATTTTATTCT AGAATTTGGGTTGACCTACAGGGAAAAATCCCTTCAATAGAAGGCGCTAGCTTTGAAAA CAAAGTGGGGTGGGGCTGCCATTGACAAGTGCCTATGCTCTTGGCTTCAAGACCCAC ACCCACCTTCCCTGGGACACCTTGACCCCTGCCTGATCCCTTACACTTCAAAGTAA ACTCTAAATCAGGGCCTCCACCCGTAATAAATTCATTGGACTATTGAAACCTCCCTTT CAGGGAAAGAAATTAACCCCAATTTTTTTGAAGAAAACTTGGAAATTTCTTAGAA CATCACTCGACATGACCTTTTTATGAAATACTTCTTGGTTGCCGACCCCTGCCTCCT TTTGCCTCCCCACCATAACTCCTGTAACAATCCCGATACAAGTGCCTTTTATTCCCC CCGTGCTTTCCCTTAAAAAACCTTACAACTCGCTCCTTTTACACAGACCACTACTA TTTGCACAACAGTAAGCTACACAATTTATGTCTTGACACA
Restriction Sites:	NotI-NotI
ACCN:	NM_032852
Insert Size:	1830 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:	<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:	NM_032852.2 , NP_116241.2
RefSeq Size:	1822 bp
RefSeq ORF:	1377 bp
Locus ID:	84938
UniProt ID:	Q96DT6
Cytogenetics:	1p31.3
Domains:	Peptidase_C54

Protein Families: Protease

Protein Pathways: Regulation of autophagy

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. Alternate transcriptional splice variants, encoding the same protein, have been characterized. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) is the predominant transcript. Variants 1 and 2 encode the same protein.