

Product datasheet for SC115281

ATG4B (NM_013325) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ATG4B (NM_013325) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ATG4B |
| Synonyms: | APG4B; AUTL1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC115281 sequence for NM_013325 edited (data generated by NextGen Sequencing) |

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ATGGACGCAGCTACTCTGACCTACGACACTCTCCGGTTTGCTGAGTTTGAAGATTTTCCT
GAGACCTCAGAGCCCCTTTGGATACTGGGTAGAAAATACAGCATTTTACAGAAAAGGAC
GAGATCTTGCTGATGTGGCATCTAGACTTTGGTTTACATACAGGAAAACTTCCAGCC
ATTGGGGGACAGGCCCCACCTCGGACACAGGCTGGGGCTGCATGCTGCGGTGTGGACAG
ATGATCTTTGCCAAGCCCTGGTGTGCCGGCACCTAGGCCGAGATTGGAGGTGGACACAA
AGGAAGAGGCAGCCAGACAGCTACTTCAGCGTCCCTCAACGCATTTCGACAGGAAGGAC
AGTTACTACTCCATTACCAGATAGCGCAAATGGGAGTTGGCGAAGGCAAGTCCATAGGC
CAGTGGTACGGGCCAACACTGTCGCCAGGTCCCTGAAGAAGCTTGCTGTCTTCGATACG
TGGAGCTCCTTGGCGGTCCACATTGCAATGGACAACACTGTTGTGATGGAGGAAATCAGA
AGGTTGTGCAGGACCAGGTTCCCTGTGCAGGCCCACTGCGTTTCTGCAGATTCCGAC
CGGCACTGCAACGGATTCCCTGCGGAGCTGAGGTCACCAACAGGCCGTGCCATGGAGA
CCCCTGGTACTTCTCATTCCCCTGCGCCTGGGGCTCACGGACATCAACGAGGCCTACGTG
GAGACGCTGAAGCACTGCTTCATGATGCCCCAGTCCCTGGGCGTCATCGGAGGGAAGCCC
AACAGCGCCCACTACTTCATCGGCTACGTTGGTGGAGAGCTCATCTACCTGGACCCAC
ACCACGCAGCCAGCCGTGGAGCCCACTGATGGCTGCTTCATCCCGGACGAGAGCTCCAC
TGCCAGCACCCGCCGTGCCGATGAGCATCGCGGAGCTTGACCCGTCCATCGCTGTGGGG
TTTTTCTGTAAGACTGAAGATGACTTCAATGATTGGTGCCAGCAAGTCAAAAAGCTGTCT
CTGCTTGAGGTTGCCCTGCCATGTTTGAGCTGGTGGAGCAGCAGCCTTACATCTGGCC
TGCCCCGACGTCCTGAACCTGTCCCTAGATTCTTCTGATGTAGAGCGACTGGAAAAGATTC
TTCGACTCAGAAGATGAAGACTTTGAAATCCTGTCCCTTTGA

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Clone variation with respect to NM_013325.4
1061 t=>a



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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_013325 unedited</p> <pre>CTATAGGGGCGGCGCGAATTCGCACGAGGCCGGACTGGGAAGATGGACGCAGCTACTCT GACCTACGACACTCTCCGGTTTGTCTGAGTTTGAAGATTTTCTGAGACCTCAGAGCCCGT TTGGATACTGGGTAGAAAATACAGCATTTTACAGAAAAGGACGAGATCTTGTCTGATGT GGCATCTAGACTTTGGTTTACATACAGGAAAACTTTCCAGCCATTGGGGGGACAGGCC CACCTCGGACACAGGCTGGGCTGCATGCTGCGGTGTGGACAGATGATCTTTGCCAAGC CCTGGTGTGCCGGCACCTAGGCCGAGATTGGAGGTGGACACAAAGGAAGAGGCAGCCAGA CAGCTACTTCAGCGTCTCAACGCATTTCGACAGGAAGGACAGTTACTACTCCATTCA CCAGATAGCGCAAATGGGAGTTGGCGAAGGCAAGTCCATAGGCCAGTGGTACGGGCCAA CACTGTGCGCCAGGTCTGAAGAAGCTTGTCTTTCGATACGTGGAGCTCCTTGCGCGT CCACATTGCAATGGACAACACTGTTGTGATGGAGGAAATCAGAAGTTGTGCAGGACCAG CGTTCCCTGTGCAGGCGCCACTGCGTTTCTGCAGATCCGACCGGCACTGCAACGGATT CCCTGCCGGAGCTGAGGTCACCAACAGGCCGTCGCCATGGAGACCCTGGTACTTCTCAT TCCCTGCGCCTGNNGCTCACGGACATCAACGAGGCCACGTGGAGACGCTGAAGCACTG CTTCATGATGCCNCAGTCTGGGGCGTCATCGGGAGGGAAGCCNACAGCGCCACTACT TCATCGGT</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_013325 unedited</p> <pre>CCCTGAAGGGTNATTTATCTCCTTACAACCACANAACCGGCGCTGGGAGCAGTGGGACT GAGGCCAGGTGCTAACACGGGGCTGGCAGTGTGAGAGAACGCTCTGGAAGCTCCTAAC AGACGGCTCCGCGTCCGGATGCACAGGCCCTGACGGGCACTCTGAGCTGGGCAGTCTGAC ACCAAGCAGTAAGGCCTCCGGGACGCGCAGCCTCAGTCCACGACACAGCGGGTGGCC TCTGGGGGAGGACAGCAGGGGCGCAGCCCTCGGCAGGCGAGCGGGCGGGATGGATGAAA CGCAGCGGCACCAGGAGCCCAGGCTCTCACAGGTGCCACCCCGACCCAGGATTTTCA AAGGGACAGGATTTCAAAGTCTTCATCTTCTGAGTCAAGAATCTTCCAGTCGCTCTAC ATCAGAAGAATCTAGGGACAGGTTCAAGACGTCGGGGCAGGCCAGATGTGAAGGCTGCTG CTCCACCAGCTCAAACATGGGCAGGGCACCTCCAAGCAGAGACAGCTTTTGGACTTGCTG GCACCAATCATTGAAGTCATCTTCAAGTCTTACAGAAAAACCCACAGCGATGGACGGGT AAGCTCCGCGATGCTCATGCGGCACGGCGGGTGTGGCAGTGGAAAGCTCTCGTCCGGAT GAAGCAGCCATCAGTGGGCTCCACGGCTGGCTGCGTGGTGTGGGGTCCAGGTAGATGAG CTCCTCACCAACGTAGCCGATGAAGTAGTGGGCGCTGTTGGGCTTCCCTCCGATGACGCC CAGGGACTGGGGCATCATGAAGCAGTGTTCAGCGNTCTCACGTAGGCCTCGTTGATGTC CGTGAGCCCCAGGCGCATGGGAATGAGAAGTACCAGGGTCTCCATGGCGACAGCCTGTT GGTGACCTCAGCTCCGGCAAGGAATCCGTTGCAATGCCGGTCGGATCTGCAG</pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_013325 |
| Insert Size: | 1600 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_013325.4](#), [NP_037457.3](#)

RefSeq Size: 2892 bp

RefSeq ORF: 1182 bp

Locus ID: 23192

UniProt ID: [Q9Y4P1](#)

Cytogenetics: 2q37.3

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 different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) is the predominant transcript and it encodes the longer isoform (a).