

Product datasheet for **SC127733**

ATG16L1 (NM_198890) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG16L1 (NM_198890) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATG16L1
Synonyms:	APG16L; ATG16A; ATG16L; IBD10; WDR30
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127733 sequence for NM_198890 edited (data generated by NextGen Sequencing)

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ATGTCGTCGGGCCTCCGCGCCGCTGACTTCCCCCGCTGGAAGCGCCACATCTCGGAGCAA
CTGAGGCGCCGGGACCGGCTGCAGAGACAGGCGTTTCGAGGAGATCATCCTGCAGTATAAC
AAATTGCTGAAAAGTCAGATCTTCATTAGTGTGGCCAGAACTACAGGCTGAAAAG
CATGACGTACCAAACAGGCACGAGATAAGNNNNNNGCAAGCCCGCTGCAGAAAGAGCTT
GCAGAAGCAGCAAAGGAACCTCTACCAGTCAACAGGATGATGACATTGAGGTCATTGTG
GATGAAAACCTTCTGATCACACAGAAGAGACCTCTCCTGTGCGAGCCATCAGCAGAGCAGCC
ACGAGACGCTCTGTCTCTTCCCTCCAGTCCCCAGGACAATGTGGATACTCATCCTGGT
TCTGGTAAAGAAGTGAGGGTACCAGCTACTGCCTTGTGTGCTTTCGATGCACATGATGGG
GAAGTCAACGCTGTGCAGTTCAGTCCAGGTTCCCGGTTACTGGCCACTGGAGGCATGGAC
CGCAGGGTTAAGCTTTGGGAAGTATTTGGAGAAAAATGTGAGTTCAAGGGTTCCCTATCT
GGCAGTAATGCAGGAATTACAAGCATTGAATTTGATAGTCTGGATCTTACCTCTTAGCA
GCTTCAAATGATTTTGAAGCCGAATCTGGACTGTGGATGATTATCGATTACGGCACACA
CTCACGGGACACAGTGGGAAAGTCTGTCTGCTAAGTTCTGCTGGACAATGCGCGGATT
GTCTCAGGAAGTACGACCGGACTCTCAAACCTCTGGGATCTACGAGCAAAGTCTGCATA
AAGACAGTGTTCAGGATCCAGTTGCAATGATATTGTCTGCACAGAGCAATGTGTAATG
AGTGGACATTTTGACAAGAAAATTCGTTTCTGGGACATTCGATCAGAGAGCATAGTTTCA
GAGATGGAGCTGTTGGGAAAGATTACTGCCCTGGACTTAAACCCAGAAAGGACTGAGCTC
CTGAGCTGCTCCCGTGATGACTTGTCTAAAAGTTATTGATCTCCGAACAAATGCTATCAAG
CAGACATTCAGTGCACCTGGGTTCAAGTGGGCTCTGACTGGACCAGAGTTGTCTTCAGC
CCTGATGGCAGTTACGTGGCGGCAGGCTCTGCTGAGGGCTCTCTGTATATCTGGAGTGTG
CTCACAGGGAAGTGGAAAAGGTTCTTTCAAAGCAGCACAGCTCATCCATCAATGCGGTG
GCGTGGTCCGCCCTCGCTCGCACGTTGTCAGTGTGGACAAAGGATGCAAAGCTGTGCTG
TGGGCACAGTACTGA

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Clone variation with respect to NM_198890.2
 210 g=>n;211 a=>n;212 g=>n;213 g=>n;214 c=>n;215 g=>n

5' Read Nucleotide Sequence: >OriGene 5' read for NM_198890 unedited

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CACTATAGGGCGCCCGCAATTCGCACGAGGGGAAGACCGTCCCGGATGGCCTCGGGGAC
TGCCAGTGTGTGGAGGTGAGCTCCGGGATTGCCGGCATTCCCGCTTCTGCTGGTTGCTTC
ATGCTGCAGGCTGCGGCCGTGAGCCCTCGCTCGCATTGGTGGCGCTGAGGTGCCGGGGCA
GCAAGTGACATGTCGTCGGGCCTCCGCGCCGCTGACTTCCCCCGCTGGAAGCGCCACATC
TCGGAGCAACTGAGGCGCCGGGACCGGCTGCAGAGACAGGCGTTTCGAGGAGATCATCCTG
CAGTATAACAAATGCTGAAAAGTCAAGTCTTCATTAGTGTGGCCAGAACTACAG
GCTGAAAAGCATGACGTACCAAACAGGCACGAGATAAGTCCCGGACATGATGGCACATGG
AATGACAATCAGCTACAAGAAATGGCCCAACTGAGGATTAAGCACCAAGAGGAAGTACTG
GAATTACACAAGAAACGTGGGGAGTTAGCTCAACTGGTATTGACCTGAATAACCAAATG
CAGCGGAAGGACAGGAGATGCAGATGAATGAAGCAAAAATTGCAGAATGTTTGCAGACT
ATCTCTGACCTGGAGACGGAGTGCCTAGACCTGCGCACTAAGCTTTGTGACCTTGAAAGA
GCCAACCCAGACCCTGAAGGATGAATATGATGCCCTGCAGATCACTNNTACTGCCTTGGAG
GGAAAACCTGANGAAAACACGGAAGAAGACCANGAGCTGGTCACCAGATGGATGGCTGAN
AAAGCCCAGGAGCAATCGGCTTATGCAGAGATGAAAAGATCCAGGAGGCGCAAGCCCC
GCTGCAGAAAGAGCTGCAAAGCAGCAAGGACCTTACC

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_198890 unedited TCTATGCNACCGCGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGAAAGTATA TAACAGATTTCTTTATTATTATTACAATCAAGTTCTGTTGGCCAACATAATGAAATAAA TAAAAGATGTGCCTGGCCTGTGAATTTCAACTCTCCTTGACTTAAGTTCTCTGAAGGGC AAATTGGAAAGCGGTGATCAGGCAGGGAAGAGAGGGCAGGTGGAGGCCAGGACCATCGGT GGGAAGGCCACCTGACTCCTCTCTCACCAGCTCTAACACTCACATCCCCAAATGTCCAGA GAACAAGCATGGAAGAAAAAATAAAGTGCAAATTTAAAAGTGATAAAAAGGGTGTTC GCACACCAATGAACTAAAACCTTATACGTAGGTAAAATAGTAAAGATAAATGTTTTTCC TTGGCCTTCATCCAACCCCTGAAACGGAAGATGGCGCTGCTGTGCTTCTGAGCCTAGGC TTCTTGCACTAAAGCACCAAGGCATCGTACACAGGCTTGGCAGAGGGCCATGGCCAGA ATCACCACCTTCAAACAAGTATGTTTGGAGGTCTCCAATCCCTTGGCCCCCAAGCATG CACGGTGGCCCCACCTTCTGCTGTCTGCAGATTGATACAGGAACACATCCTTACCTCTG CAGAGAACCCATTCCCTGGAAGAATTACACATTCTTCCACCCCAAAAACACAA ACCAAAAACCATTTAAAGCCCCCGGATTCTAAATATTTCCAATTTGCGGGCGAAAC AAAGCCCCAAGCCCTGAAACCCGGAACGAAGCAGGCACCTTCCATCGAATGAACCCAT TCTCCACCCCAAGTGAGGGTCCGCATTCCGGAGCTTCCGTAATCCAAGCTCCAGCGCG TTTCTGGGCCACTCACCCAGCGTTTGCAAATCCCCACGCCAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_198890
Insert Size:	2500 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:	<u>NM_198890.1</u> , <u>NP_942593.1</u>
RefSeq Size:	2897 bp
RefSeq ORF:	801 bp
Locus ID:	55054
UniProt ID:	<u>Q676U5</u>
Cytogenetics:	2q37.1

Gene Summary:

The protein encoded by this gene is part of a large protein complex that is necessary for autophagy, the major process by which intracellular components are targeted to lysosomes for degradation. Defects in this gene are a cause of susceptibility to inflammatory bowel disease type 10 (IBD10). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jun 2010]

Transcript Variant: This variant (3) lacks an alternate in-frame segment and an alternate in-frame exon compared to variant 1. The resulting isoform (3) has the same N- and C-termini but is shorter compared to isoform 1.