

## Product datasheet for **SC127641**

### ATG16L1 (BC013411) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATG16L1 (BC013411) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATG16L1
Synonyms:	APG16L; ATG16A; ATG16L; IBD10; WDR30
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC013411, the custom clone sequence may differ by one or more nucleotides

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AAGACCGTCCCGGATGGCCTCGGGGACGGCCAGTGTGTGGAGGTGAGCTCCGGGATTGCCGGCATTCCCG
CTTCTGCTGGTTGCTTCATGCTGCAAGGCTCGGCCCGTCAGCCCTCGCTCGCATTGGTGGCGCTGAGGTGC
CGGGGCAGCAAGTGACATGTCGTCGGGCCCTCCGCGCCGCTGACTTCCCCCGCTGGAAGCGCCACATCTCG
GAGCAACTGAGGCGCCGGGACCGGCTGCAGAGACAGGCGTTTCGAGGAGATCATCTGCAGTATAACAAAT
TGCTGGAAAAGTCAGATTTTCAGTGTGGCCAGAACTACAGGCTGAAAAGCATGACGTACCAAA
CAGGCACGAGATAAGTCCCGACATGATGCCACATGGAATGACAATCAGCTACAAGAAATGGCCCACTG
AGGATTAAGCACCAAGAGGAACTGACTGAATTACACAAGAAACGTGGGGAGCTCAACTGGTGATTGACCT
GAATAACCAAATGCAGCGGAAGGACAGGGAGATGCAGATGAATGAAGCAAAAATTGCAGAATGTTTGCAG
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AGACCCTGAAGGATGAATATGATGCCCTGCAGATCACTTTTACTGCCTTGGAGGGGAAAAGTGAAGAAAAC
TACGGAAGAGAACCAGGAGCTGGTCACCAGATGGATGGCTGAGAAAGCCCAGGAAGCCAATCGGCTTAAT
GCAGAGAATGAAAAGACTCCAGGAGGCGGCAAGCCCGGCTGCAGAAAGAGCTTGAGAAAGCAGCAAAAGG
AACCTCTACCAGTCGAACAGGATGATGACATTGAGGTGATTGTGGATGAAACTTCTGATCACACAGAAGA
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GACAATGTGGATGCTCATCTGGTCTGGTAAAGAAGTGAAGGTACCAGTACTGCCTTGTGTCTTTCG
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GGACCGCAGGGTTAAGCTTTGGGAAGTATTTGGAGAAAAATGTGAGTTCAAGGGTTCCCTATCTGGCAGT
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CAAGCCGAATCTGGACTGTGGATGATTATCGATTACGGCACACACTCACGGGACACAGTGGGAAAGTGCT
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GATCTACGCAGCAAAGTCTGCATAAAGACAGTGTTCAGGATCCAGTTGCAATGATATTGTCTGCACAG
AGCAATGTGTAATGAGTGGACATTTTGACAAGAAAATTCGTTTCTGGGACATTGATCAGAGAGCATAGT
TCGAGAGATGGAGCTGTTGGGAAAGATTACTGCCCTGGACTTAAACCCAGAAAGGACTGAGCTCCTGAGC
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TGCTCCCGTGATGACTTGCTAAAAGTTATTGATCTCCGAACAAATGCTATCAAGCAGACATTCAGTGCAC
CTGGGTTCAAGTGC GGCTCTGACTGGACCAGAGTTGTCTTCAGCCCTGATGGCAGTTACGTGGCGGCAGG
CTCTGCTGAGGGCTCTCTGTATATCTGGAGTGTGCTCACAGGGAAAGTGGAAAAGTTCTTTCAAAGCAG
CACAGCTCATCCATCAATGCGGTGGCGTGGTCCGCCTCTGGCTCGCACGTTGTCAAGTGTGGACAAAGGAT
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AAGAAGCACATGGGCTCCTGCAGCCCTGTCTGGCAGGTGATGTGCTGGGTATAGCATGGACCTCCCAGA
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TTGGCCTGGAAGAATAACACTGAAAAAACCTGACGCTGCGGTCACTTAGCAGAGGCTCAGGTTCTTGCC
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AGAAGCCTAGGCTCAGAAGCACAGCAGCCCATCTTCCGTTTCAGGGGTTGTGATGAAGGCCAAGGAAA
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AGAGCTGGTGAGAGAGGAGTCAGGCGGCCTTCCACCGATGGTCTGGCTCCACCTGCCCTCTCTTCCC
TGCCTGATCACCGCTTCCAATTTGCCCTTCAGAGAACTTAAGTCAAGGAGAGTTGAAATTCACAGGCCA
GGGCACATCTTTATTTATTTTATTATGTTGGCCAACAGAACTTGATTGTAATAATAATAAAGAAATCT
GTTATATACTTTTCAAAAAAAAAAAAAAAAAAAAA
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for BC013411 unedited
TGTAATACGACTACTATAGGGCGGCCGCAATTCGGCACGAGGCCTCGTGCCGAATTCC
GCACGAGGGCCTCGGGGACTGCCAGTGTGTGGAGGTGAGCTCCGGGATTGCCGGCATTCC
CGCTTCTGCTGGTTGCTTCACTGCTGCAGGCTGCGGCCGTCAGCCCTCGCTCGCATTGGTG
GCGCTGAGGTGCCGGGGCAGCAAGTGACATGTCGTGCGGGCTCCGCGCCGCTGACTTCCC
CCGCTGGAAGCGCCACATCTCGGAGCAACTGAGGCGCCGGGACCGCTGCAGAGACAGGC
GTTGAGGAGATCATCTGCAGTATAACAAATTGCTGGAAAAGTCAGATCTTCATTCAAGT
GTTGGCCAGAACTACAGGCTGAAAAGCATGACGTACCAAAACAGGCACGAGATAAGGAG
GCGGCAAGCCCGCTGCAGAAAGAGCTTGCAAGCAGCAAGGAACCTTACCAGTCGA
ACAGGATGATGACATTGAGGTCATTGTGGATGAACTTCTGATCACACAGAAGAGACCTC
TCCTGTGCGAGCCATCAGCAGAGCAGCCACTAAGCGACTCTCGCAGCCTGCTGGAGGCT
TCTGGATTCTATCACTAATATCTTTGGGAGACGCTCTGTCTCTTCTTCCAGTCCCCCA
GGACAATGTGGATACTCATCCTGTTCTGGTAAAGAAAGTGAAGGTACCAGCTACTGCCTT
GTGTGCTTTCGATGCACATGATGGNGAAGTCAACGCTGTGCAAGTTCAGTCCAGGTTCCCCG
GTTACTGGCCACTGGNAGCATGGACCGCAGGNTTAAGCTTGGGAAAGTATTGAGAAAAAG
TGAGTTCAAGGTCCTATCTGGCAGTATGCAGAAATACAGCATGATTTGAAGTGCTGGATC
TACTNCTACAGCTCAAGAN
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for BC013411 unedited CACTTCAGGATCGAGTTTTTTTCTTTTTTTTTTTTTTTTTTTTGGAAAAGTTATAACAGAT TTCTTTATTATTATTTACAATCAAGTTCTGTTGGCCAACATAATGAAATAAATAAAAGAT GTGCCCTGGCCTGTGAATTTCAACTCTCCTTGACTTAAGTTCTCTGAAGGGCAAATTGGA AAGCGGTGATCAGGCAGGGAAAAAGGGCAGGTGGAGGCCAGGACCATCGGTGGGAAGGC CACCTGACTCCTCTCTCACCAGCTCTAACACTCACATCCCCAAATGTCCAGAGAACAAGC ATGGAAGAAAAAATAAAGTGCAAATTTAAAAGTGATAAAAAGGGTGTTTCGCACACCC AATGAACTAAAACTTTATACGTAGGTAAAATAGTAAAGATAAATGTTTTCTTGGCCTT CATCACAACCCCTGAAACGGAAAGATGGCGCTGCTGTGCTTCTGAGCCTAGGCTTCTTGC ACTAAAGACCAAGGGCATCGCACACAGGCTTGGCAGAGGGGCCATGGCCAGAATCACCA CCTTCAGACAAGTATGTTGGAGGTCTCGAATCCCTTGGCACCCCAACATGCAGTGTGCA CCCCCTTCTGGGTGTCTGCAGATCGATACAGGAACACATCCCTACCTCTGGAGCGAACC AATTTCCCTGGGAAAGATTTTACACATTCTCTCCACCTTAAAAAACAACAAAAACAAA ACCCTTTTTTAAAGCCCCACGGGAGATTTCTAAAATTGCCAAATCTGTGGGGGAAGGA GACGCCATAAGCCCTTAAAACAAGTGAAGAGATTGTGAGGCCTTTCACGCGTAATGAAA ACCCTTTTTTGGCCCCACCGGAAGGGCCTTACTTGGGAATTCCCTTATCCAAGCTTAAG GGAGCCCCGCCATAACCCAGGGTTGGAATGCTTAGCAACACCATTTGGAGCCGAAAAAC ACCCAAACCCCTTTTGTGGGGCTATTGCATGACT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	BC013411
<b>Insert Size:</b>	2930 bp
<b>OTI Disclaimer:</b>	The sequence of an 'OriGene Unique Variant' differs significantly from the associated reference. It represents a novel splice variant from the same gene locus of the reference. Although such variants are true transcripts and present opportunity for discoveries, they are not yet curated by NCBI and should not be used if the exact reference accession sequence is required.
<b>OTI Annotation:</b>	This TrueClone was found to represent an alternative form of the specific reference to which it is associated. Its Open Reading Frame (ORF) may represent a novel form or alternative splice variant. By virtue of it being a true transcript (cDNA clone not PCR product), it provides a biologically relevant copy of its mRNA template. For more details, please evaluate the sequence information provided on this website or contact our customer care specialists.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC013411.1</a>
<b>RefSeq Size:</b>	3262 bp

RefSeq ORF: 357 bp

Locus ID: 55054

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]