

Product datasheet for **SC102544**

ATG16L1 (AK027854) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG16L1 (AK027854) 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 SC102544 sequence for AK027854 edited (data generated by NextGen Sequencing)

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ATGGCCAACTGAGGATTAAGCACCAAGAGGAACTGACTGAATTACACAAGAAACGTGGG
GAGTTAGCTCAACTGGTGATTGACCTGAATAACCAAATGCAGCGGAAGGACAGGGAGATG
CAGATGAATGAAGCAAAAATTGCAGAATGTTTGCAGACTATCTCTGACCTGGAGACGGAG
TGCCTAGACCTGCGCACTAAGCTTTGTGACCTTAAAGAGCCAACCAGACCCTGAAGGAT
GAATATGATGCCCTGCAGATCACTTTTACTGCCTTGGAGGGAAAACAGGAAAACACTACG
GAAGAGAACCAGGAGCTGGTCACCAGATGGATGGCTGAGAAAGCCAGGAAGCCAATCGG
CTTAATGCAGAGAATGAAAAAGACTCCAGGAGGCGCAAGCCCGCTGCAGAAAGAGCTT
GCAGAAGCAGCAAAGAACCTCTACCAGTCGAACAGGATGATGACATTGAGGTCATTGTG
GATGAACTTCTGATCACACAGAAGAGACCTCTCTGTGCGAGCCATCAGCAGAGCAGCC
ACGAGACGCTCTGTCTTCTTCCCAGTCCCCAGGACAATGTGGATACTATCCTGGT
TCTGGTAAAGAAGTGAGGGTACCAGCTACTGCCTTGTGTGTCTTCGATGCACATGATGGG
GAAGTCAACNNNNNNNGTTTCAGTCCAGGTTCCCGGTTACTGGCCACTGGAGGCATGGAC
CGCAGGGTTAAGCTTTGGGAAGTATTTGGAGAAAATGTGAGTTCAAGGGTTCCCTATCT
GGCAGTAAATGCAGGAATTAACAAGCATTGAATTTGATAGTCTGGATCTTACCTCTTAGCA
GCTTCAAATGATTTTGAAGCCGAATCTGGACTGTGGATGATTATCGATTACGGCACACA
CTCACGGGACACAGTGGGAAAGTGTCTGTCTGCTAAGTTCTCTGCTGGACAATGCGCGGATT
GTCTCAGGAAGTACGACCCGACTCTCAAACCTCTGGGATCTACGCAGCAAAGTCTGCATA
AAGACAGTGTTTGCAGGATCCAGTTGCAATGATATTGTCTGCACAGAGCAATGTGTAATG
AGTGGACATTTTACAAGAAAATTCGTTTCTGGACATTCGATCAGAGAGCATAGTTTCA
GAGATGGAGCTGTGGGAAAGATTACTGCCCTGGACTTAAACCCAGAAAGGACTGAGCTC
CTGAGCTGCTCCCGTGTGACTTGTCTAAAAGTTATTGATCTCCGAACAAATGCTATCAAG
CAGACANNNNNNNNNCTGGGTTCAAGTCCGCGCTCTGACTGGACCAAGAGTTGTCTTCAGC
CCTGATGGCAGTTACGTGGCGGAGGCTCTGCTGAGGGCTCTCTGTATATCTGGAGTGTG
CTCACAGGAAAGTGGAAAAGTTCTTTCAAAGCAGCACAGCTCATCCATCAATGCGGGT
GCGTGGTCCGCTCTGGCTCGCACGTTGTGAGTGTGGACAAGGATGCAAAGCTGTGCTG
TGGGCACAGTACTGA
    
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Clone variation with respect to AK027854.1

200 g=>a;670 g=>n;671 c=>n;672 t=>n;673 g=>n;674 c=>n;675 g=>n;676 c=>n;677 a=>n;1267 t=>n;1268 t=>n;1269 c=>n;1270 a=>n;1271 g=>n;1272 t=>n;1273 g=>n;1274 c=>n;1275 a=>n;1276 a=>n

5' Read Nucleotide Sequence:

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>OriGene 5' read for AK027854 unedited
GGAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCCAGCCGGCATGAGC
CGGAAGACCGTCCCGGATGGCCTCGGGGACTGCCAGTGTGTGGAGGTGAGCTCCGGGATT
GCCGGCATTCCCGCTTCTGCTGGTTGCTTCATGCTGCAGGCTGCGGCCGTGAGCCCTCGC
TCGCATTGGTGGCGCTGAGGTGCCGGGGCAGCAAGTGACATGTCGTGCGGCCCTCCGCGCC
GCTGACTTCCCCCGCTGGAAGCGCCACATCTCGGAGCAACTGAGGCGCCGGGACCGGCTG
CAGAGACAGGCGTTCGAGGAGATCATCCTGCAAGTATAACAATGCTGGAAGTCAAGT
CTTCATTGAGTGTGGCCAGAACTACAGGCTGAAAAGCATGACGTACCAAACAGGCAC
GAGATAAGTCCCGGACATGATGGCACATGGAATGACAATCAGCTACAAGAAATGGCCAA
CTGAGGATTAAGCACCAAGAGGAACTGACTGAATTACACAAGAAACGTGGGGAGTTAGCT
CAACTGGTGATTGACCTGAATAACCAAATGCAGCGGAAGGACAGGGAGATGCAGATGAAT
GAAGCAAAAATTCAGAAATGTTTGCAGACTATCTCTGACCTGGAGACGGAGTGCCTAGAC
CTGCGCACTAAGCTTTGTGACCTTAAAGAGCCAACCAGACCCTGANAGATGAATATGAT
GCCCTGCAGATCACTTTTACTGCCTTGGGAGGAAAACAGGAAAACACTACGGAAGAGAAA
CCAGGAGCTGTCACCAGATGGATGGCTGAGAAAGCCAGGAAGCCAATCGGCTTAATGCA
GAGAATGAAAAAGAACTCCAGGAGCNGCAAGCCCCGCTGCAGAAAAGAGCTTGAGAAGCA
GCAAAGAACCTCTACAGTCCGACAGGATGATGACATTTGAGGCATTGTGGATGAACTNCT
GATACACAGAAGAGACTTNCTGTGCGAGCATCAGCAGACAGCCGAGACCN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for AK027854 unedited NTTTTNAGGGTATTAGCTAGNNACCGCGCCGCAATCTAGNGATCGATTTTTTTTTTTTT TTTTTGAAAAGTTATAACAGATTTCTTTATTATTATTTACAATCAAGTTCTGTTGGCCAA CATAATGAAATAAATAAAAGATGTGCCCTGGCCTGTGAATTTCAACTCTCCTTGACTTAA GTTCTCTGAAGGGCAAATTGGAAAGCGGTGATCAGGCAGGGAAGAGAGGGCAGGTGGAGG CCAGGACCATCGGTGGGAAGGCCACCTGACTCCTCTCTCACCAGCTAACACTCACATC CCCAAATGTCCAGAGAACAAGCATGGAAGAAAAAATAAAGTGCAAATTTAAAAGTGAT AAAAAGGGTGTTCGCACACCCAATGAACTAAAACCTTTATACGTAGGTAAAATAGTAAAG ATAAATGTTTTCTTGCCCTTCATCACACCCCTGAAACGAAAAGATGGCGCTGTGTG CTTCTGAGCCTAGGCTTCTTGCACTAAAGCACCAAGGGCATCGCACACAGGCTTGGCAGA GGGGCCATGGCCAGAATCACCACCTTCAGACAAGTATGNTTGGAGGTCTCGAATCCCTTG GCACCCCAAGCATGCAGTGTGCACCCACCTTCTGGGTGTCTGCAGATCGATACAGGAAC ACATCCTTACCTCTGCAGCGAACCCATTTCTGGAAAAGATTTTCACACATCCTCTCCC ACCTCAAAAAACAAAAACAAAAACCATTTTTTAAAGCCACACGGAGATTTTTAATAT GTCCAAATTTGTGGGGAAAGAGAGCCCGAAAGCTCTGAAGAACGTGAAAGAAATTTGAG ACTTTTCCACCTTATGAGACCCTTCTTGCCACCCACAGGGAGGGGCTTGAAGTT
Restriction Sites:	NotI-NotI
ACCN:	AK027854
Insert Size:	3410 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>AK027854.1</u> , <u>BAB55412.1</u>
RefSeq Size:	2923 bp
RefSeq ORF:	1515 bp
Locus ID:	55054
Cytogenetics:	2q37.1
Domains:	WD40

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]