

Product datasheet for **RC231272**

ATG16L1 (NM_001190267) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG16L1 (NM_001190267) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATG16L1
Synonyms:	APG16L; ATG16A; ATG16L; IBD10; WDR30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC231272 representing NM_001190267
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCACGGGAAGGACAGGGAGATGCAGATGAATGAAGCAAAAATTGCAGAATGTTTGCAGACTATCTCTG
 ACCTGGAGACGGAGTGCCTAGACCTGCGCACTAAGCTTTGTGACCTTGAAAGAGCCAACCGACCCCTGAA
 GGATGAATATGATGCCCTGCAGATCACTTTTACTGCCTTGGAGGGAAAAGTGGAGAAAAGTACGGAAAGAG
 AACCGAGAGCTGGTACCAGATGGATGGCTGAGAAAGCCAGGAAGCCAATCGGCTTAATGCAGAGAATG
 AAAAAGACTCCAGGAGCGGCAAGCCCGGCTGCAGAAAGAGCTTGCAGAAGCAGCAAAAGGAACCTTACC
 AGTCGAACAGGATGATGACATTGAGGTCATTGTGGATGAAACTTCTGATCACACAGAAGAGACCTCTCT
 GTGCGAGCCATCAGCAGAGCAGCCACTAAGCGACTCTCGCAGCCTGCTGGAGGCTTCTGGATTCTATCA
 CTAATATCTTTGGGAGACGCTCTGTCTTCTTCCCAGTCCCCAGGACAATGTGGATACTCATCTGG
 TTCTGGTAAAGAAGTGGGGTACCAGCTACTGCCTTGTGTCTTTCGATGCACATGATGGGAAGTCAAC
 GCTGTGCAGTTCCAGTCCAGGTTCCCGTACTGGCCACTGGAGGCATGGACCGCAGGGTTAAGCTTTGGG
 AAGTATTTGGAGAAAAATGTGAGTTCAAGGGTTCCTATCTGGCAGTAATGCAGGAATTACAAGCATTGA
 ATTTGATAGTGCTGGATCTTACCTCTTAGCAGCTTCAAATGATTTTGAAGCCGAATCTGGACTGTGGAT
 GATTATCGATTACGGCACACACTCACGGGACACAGTGGGAAAGTGTCTGTCTGCTAAGTTCCTGCTGGACA
 ATGCGCGGATTGTCTCAGGAAGTACGACCGGACTCTCAAACCTCTGGGATCTACGCAGCAAAAGTCTGCAT
 AAAGACAGTGTTCAGGATCCAGTTGCAATGATATTGTCTGCACAGAGCAATGTGTAATGAGTGGACAT
 TTTGACAAGAAAATTCGTTTCTGGGACATTGATCAGAGAGCAGTTCGAGAGATGGAGCTGTTGGGAA
 AGATTACTGCCCTGGACTTAAACCCAGAAAGGACTGAGCTCCTGAGCTGCTCCCGTATGACTGCTAAA
 AGTTATTGATCTCCGAACAAATGCTATCAAGCAGACATTCAAGTGCACCTGGGTTCAAGTGCAGGCTCTGAC
 TGGACCAGAGTTGTCTTACGCCCTGATGGCAGTTACGTGGCGGCAGGCTCTGCTGAGGGCTCTGTATA
 TCTGGAGTGTCTCACAGGGAAAGTGGAAAAGTTCTTTCAAAGCAGCACAGCTCATCCATCAATGCGGT
 GCGTGGTCCGCTCTGGCTCGCACGTTGTGAGTGGACAAAGGATGCAAAGCTGTGCTGTGGGCACAG
 TAC

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCACTCAGAAAGAGGATCTGGCAGCAAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231272 representing NM_001190267
 Red=Cloning site Green=Tags(s)

MQRKDREMQMNEAKIAECLQTIISDLETECLDLRKLCDLERANQTLKDEYDALQITFTALEGKLRKTTEE
 NQELVTRWMAEKAQEANRLNAENEKDSRRRQARLQKELAEAAKEPLPVEQDDDIIEIVDETSDHTEETSP
 VRAISRATKRLSQPAGLLDSITNIFGRRSVSSFPVPQDNVDTHPGSGKEVRVPATALCVFDAHDGEVN
 AVQFSPGSRLLATGGMDRRVKLWEVFGEKCEFKGSLSGSNAGITSIEFDSAGSYLLAASNDFASRIWTV
 DYRLRHTLTGHSGKVLSAKFLDNARIVSGSHDRTLKLWDLRSKVCIKTVFAGSSCNDIVCTEQCVMSGH
 FDKKIRFWDIRSESIVREMLLKGITALDLNPERTELLSCSRDILLKVIDLRTNAIKQTF SAPGFKCGSD
 WTRVVFSPDGSYVAAGSAEGLYIWSVLTKVKEVLSKQHSINAVAWSPSGSHVVSVDKGCKAVLWAQ
 Y

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8063_b02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001190267

ORF Size: 1473 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001190267.2](#)

RefSeq ORF: 1476 bp

Locus ID: 55054

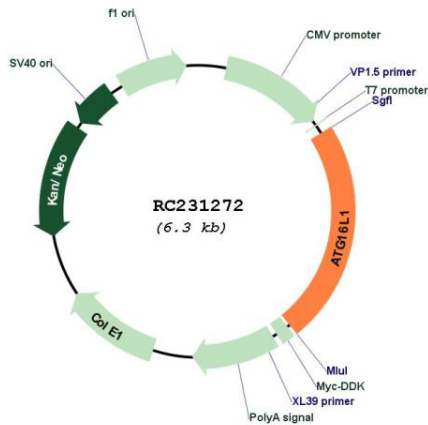
UniProt ID: [Q676U5](#)

Cytogenetics: 2q37.1

MW: 54.9 kDa

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]

Product images:


Circular map for RC231272