

Product datasheet for **RG231272**

ATG16L1 (NM_001190267) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG16L1 (NM_001190267) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATG16L1
Synonyms:	APG16L; ATG16A; ATG16L; IBD10; WDR30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG231272 representing NM_001190267
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCACGGGAAGGACAGGGAGATGCAGATGAATGAAGCAAAAATTGCAGAATGTTTGCAGACTATCTCTG
 ACCTGGAGACGGAGTGCCTAGACCTGCGCACTAAGCTTTGTGACCTTGAAAGAGCCAACCGACCTGAA
 GGATGAATATGATGCCCTGCAGATCACTTTTACTGCCTTGGAGGGAAAAGTGGAGAAAAGTACGGAAAG
 AACCGAGGAGTGGTACCAGATGGATGGCTGAGAAAGCCAGGAAGCCAATCGGCTTAATGCAGAGAATG
 AAAAAGACTCCAGGAGCGGCAAGCCCGCTGCAGAAAGAGCTTGCAGAAGCAGCAAAAGAACCTTACC
 AGTCGAACAGGATGATGACATTGAGGTCATTGTGGATGAAACTTCTGATCACACAGAAGAGACCTCTCT
 GTGCGAGCCATCAGCAGAGCAGCCACTAAGCGACTCTCGCAGCCTGCTGGAGGCTTCTGGATTCTATCA
 CTAATATCTTTGGGAGACGCTCTGTCTTCTCCAGTCCCCAGGACAATGTGGATACTCATCTGG
 TTCTGGTAAAGAAGTGGGGTACCAGCTACTGCCTTGTGTGTCTTCGATGCACATGATGGGAAGTCAAC
 GCTGTGCAGTTCCAGTCCAGGTTCCCGTACTGGCCACTGGAGGATGGACCGCAGGGTTAAGCTTTGGG
 AAGTATTTGGAGAAAAATGTGAGTTCAAGGTTCCCTATCTGGCAGTAATGCAGGAATTACAAGCATTGA
 ATTTGATAGTGTGGATCTTACCTCTTAGCAGCTTCAAATGATTTTGAAGCCGAATCTGGACTGTGGAT
 GATTATCGATTACGGCACACACTCACGGGACACAGTGGGAAAGTGTCTGTCTGCTAAGTTCCTGCTGGACA
 ATGCGCGGATTGTCTCAGGAAGTACGACCGGACTCTCAAACCTCTGGGATCTACGCAGCAAAGTCTGCAT
 AAAGACAGTGTTCAGGATCCAGTTGCAATGATATTGTCTGCACAGAGCAATGTGAATGAGTGGACAT
 TTTGACAAGAAAATTCGTTTCTGGGACATTGATCAGAGAGCAGTCTGAGCTCCTCCGCTGCTGCTAAA
 AGTTATTGATCTCGAACAATAAGTCTATCAAGCAGACATTCAAGTGCACCTGGGTTCAAGTGCAGCTCTGAC
 TGGACCAGAGTTGTCTTACGCCCTGATGGCAGTTACGTGGCGGCAGGCTCTGCTGAGGGCTCTGTATA
 TCTGGAGTGTGCTCACAGGGAAAGTGGAAAAGTTCTTTCAAAGCAGCACAGCTCATCCATCAATGCGGT
 GGCGTGGTCCCTCTGGCTCGCACGTTGTGAGTGGACAAAGGATGCAAAGCTGTGCTGTGGGCACAG
 TAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

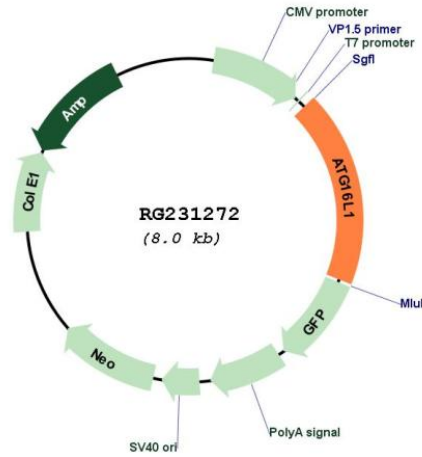
>RG231272 representing NM_001190267
 Red=Cloning site Green=Tags(s)

MQRKDREMQMNEAKIAECLQITISDLETECLDLRTKLCDLERANQTLKDEYDALQITFTALEGKLRKTT
 EQELVTRWMAEKAQEANRLNAENEKDSRRRQARLQKELAEAAKEPLPVEQDDIEVIVDETSDHTEETSP
 VRAISRATKRLSQPAGLLDSITNIFGRRSVSSFPVPQDNVDTHPGSGKEVRVPATALCVFDAHDGEVN
 AVQFSPGSRLLATGGMDRRVKLWEVFGEKCEFKGSLSGSNAGITSIEFDSAGSYLLAASNDFASRIWTV
 DYRLRHTLTGHSGKVLAKFLLDNARIVSGSHDRTLKLWDLRSKVICIKTVFAGSSCNDIVCTEQCVMSGH
 FDKKIRFWDIRSEIVREMLLKGITALDLNPERTELLSCSRDILLKVIDLRTNAIKQTFAPGFKCGSD
 WTRVVFSPDGSYVAAGSAEGLYIWSVLTKVKEKVLKQHSINAVAWSPSGSHVVSVDKGVKAVLWAQ
 Y

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:


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 Size: 3407 bp

RefSeq ORF: 1476 bp

Locus ID: 55054

UniProt ID: [Q676U5](#)

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]