

## Product datasheet for **RG231237**

### **ATG16L1 (NM\_198890) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ATG16L1 (NM_198890) 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)



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**ORF Nucleotide Sequence:**

>RG231237 representing NM\_198890  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCGTCGGGCCTCCGCGCCGCTGACTTCCCCGCTGGAAGCGCCACATCTCGGAGCAACTGAGGCGCC  
 GGGACCGCTGCAGAGACAGGCGTTCGAGGAGATCATCCTGCAGTATAACAAATTGCTGGAAAAGTCAGA  
 TCTTCATTCAAGTGTGGCCAGAACTACAGGCTGAAAAGCATGACGTACCAAACAGGCACGAGATAAGG  
 AGGCGGCAAGCCCGCTGCAGAAAGAGCTTGCAGAAAGCAGCAAAGGAACCTCTACCAGTCGAACAGGATG  
 ATGACATTGAGGTCATTGTGGATGAAACTTCTGATCACACAGAAGAGACCTCTCCTGTGCGAGCCATCAG  
 CAGAGCAGCCACGAGACGCTCTGTCTTCTCCTCCAGTCCCCAGGACAATGTGGATACTCATCCTGGT  
 TCTGGTAAAGAAGTGAGGGTACCAGCTACTGCCTTGTGTCTTCGATGCACATGATGGGAAGTCAACG  
 CTGTGCAGTTCAGTCCAGGTTCCCGTTACTGGCCACTGGAGGCATGGACCGAGGGTTAAGCTTTGGGA  
 AGTATTTGGAGAAAAATGTGAGTTCAAGGTTCCCTATCTGGCAGTAATGCAGGAATTACAAGCATTGAA  
 TTTGATAGTGCTGGATCTTACCTTTAGCAGCTTCAAATGATTTTGAAGCCGAATCTGGACTGTGGATG  
 ATTATCGATTACGGCACACACTCACGGGACACAGTGGGAAAGTGCTGTCTGCTAAGTTTCTGCTGGACAA  
 TGCGCGGATTGTCTCAGGAAGTCAAGCCGACTCTCAAATCTGGGATCTACGCAGCAAAGTCTGCATA  
 AAGACAGTGTTCGAGGATCCAGTTGCAATGATATTGTCTGCACAGAGCAATGTGTAATGAGTGGACATT  
 TTGACAAGAAAATTCGTTTCTGGGACATTCGATCAGAGAGCATAGTTCGAGAGATGGAGCTGTTGGGAAA  
 GATTACTGCCCTGGACTTAAACCCAGAAAGGACTGAGCTCCTGAGCTGCTCCCGTATGACTTGTAAAA  
 GTTATTGATCTCCGAACAAATGCTATCAAGCAGACATTCAGTGCACCTGGGTTCAAGTGGCGCTCTGACT  
 GGACCAGAGTTGTCTTCAGCCCTGATGGCAGTACGTGGCGGCAGGCTCTGCTGAGGGCTCTGTATAT  
 CTGGAGTGTCTCACAGGAAAGTGAAAAAGGTTCTTTCAAAGCAGCACAGCTCATCCATCAATGCGGTG  
 GCGTGGTCCGCTCTGGCTCGCACGTTGTCAAGTGTGGACAAAGGATGCAAAGCTGTGCTGTGGGCACAGT  
 AC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG231237 representing NM\_198890  
 Red=Cloning site Green=Tags(s)

MSSGLRAADFPRWKRHISEQLRRRDRLQRQAFEEIILQYNKLEKSDLHSVLAQKLQAEKHDVPRHEIR  
 RRQARLQKELAEAAKEPLPVEQDDIEIVDETSDHTEETSPVRAISRATRRSVSSFPVPQDNVDTHPG  
 SGKEVRVPATALCVFDAHDGEVNAVQFSPGSRLLATGGMDRRVKLWEVFGKCEFKGSLSGSNAGITSIE  
 FDSAGSYLLAASNDFAIRIWTVDYRLRHTLTGHSGKVLSAKFLLDNARIVSGSHDRTLKLWDLRSKVICI  
 KTVFAGSSCNDIVCTEQVMMSGHFDKIRFWDIRSEIVREMELLGKITALDLNPERTELLSCSRDILLK  
 VIDLRTNAIKQTFAPGFKGSDWTRVVFSPDGSYVAAGSAEGSLYIWSVLTGKVEKVLKQHSINAV  
 AWSPSGSHVVSVDKCKAVLWAQY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_198890

**ORF Size:** 1332 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\\_198890.2](#), [NP\\_942593.2](#)

**RefSeq Size:** 2922 bp

**RefSeq ORF:** 1335 bp

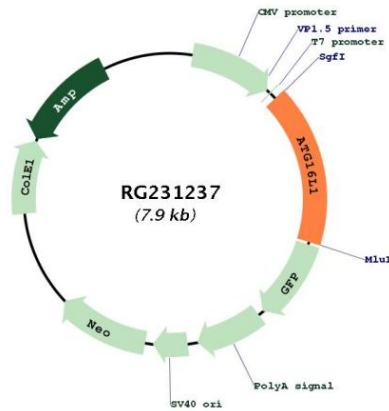
**Locus ID:** 55054

**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]

**Product images:**


Circular map for RG231237