

Product datasheet for **RG231296**

ATG16L1 (NM_001190266) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG16L1 (NM_001190266) 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:

>RG231296 representing NM_001190266
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAACTGAGGATTAAGCACCAAGAGGAAGTACTGAATTACACAAGAAACGTGGGGAGTTAGCTC
 AACTGGTGATTGACCTGAATAACCAAATGCAGCGGAAGGACAGGGAGATGCAGATGAATGAAGCAAAAAT
 TGCAGAATGTTTGCAGACTATCTCTGACCTGGAGACGGAGTGCCTAGACCTGCGCACTAAGCTTTGTGAC
 CTTGAAAGAGCCAACAGACCCTGAAGGATGAATATGATGCCCTGCAGATCACTTTTACTGCCTTGGAGG
 GAAAAGTACGGAAGAGAACCAGGAGCTGGTACCAGATGGATGGCTGAGAAAAGCCAGGA
 AGCCAATCGGCTTAATGCAGAGAATGAAAAGACTCCAGGAGCGGCAAGCCCGCTGCAGAAAGAGCTT
 GCAGAAGCAGCAAAGAACCTCTACCAGTGAACAGGATGATGACATTGAGGTATTGTGGATGAACTT
 CTGATCACACAGAAGAGACCTCTCCTGTGCGAGCCATCAGCAGAGCAGCCACTAAGCGACTCTCGACGC
 TGCTGGAGGCCTTCTGGATTCTACTAATATCTTTGGGAGACGCTCTGTCTTCTTCCCTCCAGTCCCC
 CAGGACAATGTGGATACTCATCTGGTTCTGGTAAAGAAGTGAGGGTACCAGCTACTGCCTTGTGTGTCT
 TCGATGCACATGATGGGGAAGTCAACGCTGTGCAGTTCAGTCCAGGTTCCCGGTTACTGGCCACTGGAGG
 CATGGACCGCAGGGTTAAGCTTTGGGAAGTATTTGGAGAAAAATGTGAGTTCAAGGGTCCCTATCTGGC
 AGTAATGCAGGAATTACAAGCATTGAATTTGATAGTGTGGATCTTACCTCTTAGCAGCTTCAAATGATT
 TTGCAAGCCGAATCTGGACTGTGGATGATTATCGATTACGGCACACACTCACGGGACACAGTGGGAAAGT
 GCTGTCTGCTAAGTTCCTGCTGGACAATGCGCGGATTGTCTCAGGAAGTACGACCGGACTCTCAAATC
 TGGGACTACGCAGCAAAGTCTGCATAAAGACAGTGTTCAGGATCCAGTTGCAATGATATTGTCTGCA
 CAGAGCAATGTGTAATGAGTGGACATTTGACAAGAAAAATTCGTTTCTGGGACATTCGATCAGAGCAG
 AGTTTCAGAGATGGAGCTGTTGGGAAAGATTACTGCCCTGGACTTAAACCCAGAAAGGACTGAGCTCCTG
 AGCTGCTCCCGTATGACTTGTAAAAGTATTGATCTCCGAACAAATGCTATCAAGCAGACATTCAAGT
 CACCTGGGTTCAAGTGGGCTCTGACTGGACCAGAGTTGTCTTACGCCCTGATGGCAGTTACGTGGCGGC
 AGGCTCTGCTGAGGGCTCTCTGTATCTGGAGTGTGCTCACAGGGAAAGTGGAAAAGGTTCTTTCAAAG
 CAGCACAGCTCATCCATCAATGCGGTGGCGTGGTCCGCTCTGGCTCGCACGTTGTCAGTGTGGACAAAG
 GATGCAAAGCTGTGCTGTGGGCACAGTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG231296 representing NM_001190266
 Red=Cloning site Green=Tags(s)

MAQLRIKHQEELTELHKKRGELAQLVIDLNNQMQRKDREMQMNEAKIAECLQTIISDLETECLDLRTKLCD
 LERANQTLKDEYDALQITFTALEGKLRKTTTEENQELVTRWMAEKAQEANRLNAENEKDSRRRQARLQKEL
 AEAAKEPLPVEQDDIEVIVDETSDHTEETSPVRAISRATKRLSQPAGLLDSITNIFGRRSVSSFPVP
 QDNVDTHPGSGKEVRVPATALCVFDAHDGEVNAVQFSPGSRLLATGGMDRRVKLWEVFGKCEFKGSLSG
 SNAGITSIEFDSAGSYLLAASNDFASRIWTVDDYRLRHTLTGHSGKVLAKFLLDNARIVSGSHDRTLKL
 WDLRSKVCIKTVFAGSSCNDIVCTEQCVMSGHFDKIRFWDIRSESIVREMEELLGKITALDLNPERTELL
 SCSRDDLKVIDLRTNAIKQTFAPGFKCGSDWTRVVFSPDGSYVAAGSAEGLYIWSVLTKVKEKVLKSK
 QHSSSINAVAWSPSGSHVVSVDKGGKAVLWAQY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001190266
ORF Size:	1569 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:	<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:	NM_001190266.2
RefSeq Size:	3409 bp
RefSeq ORF:	1572 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]