

Product datasheet for **RG216728**

ATG16L1 (NM_030803) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG16L1 (NM_030803) 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:

>RG216728 representing NM_030803
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGTCGGGCCTCCGCGCCGCTGACTTCCCCGCTGGAAGCGCCACATCTCGGAGCAACTGAGGCGCC
 GGGACCGGCTGCAGAGACAGGCGTTCGAGGAGATCATCCTGCAGTATAACAAATTGCTGGAAAAGTCAGA
 TCTTCATTCAAGTGTGGCCAGAACTACAGGCTGAAAAGCATGACGTACCAAACAGGCACGAGATAAGT
 CCCGGACATGATGGCACATGGAATGACAATCAGCTACAAGAAATGGCCAACTGAGGATTAAGCACCAAG
 AGGAACTGACTGAATTACACAAGAACTGGGGAGTTAGCTCACTGGTATTGACCTGAATAACCAAAAT
 GCAGCGGAAGGACAGGGAGATGCAGATGAATGAAGCAAAAATGCAGAATGTTTGCAGACTATCTCTGAC
 CTGGAGACGGAGTGCCTAGACCTGCGCACTAAGCTTTGTACCTTGAAGAGCCAACCAGACCCTGAAGG
 ATGAATATGATGCCCTGCAGATCACTTTACTGCCTTGGAGGGAAAATGAGGAAAATACGGAAGAGAA
 CCAGGAGCTGGTACCAGATGGATGGCTGAGAAAGCCCAGGAAGCCAATCGGCTTAATGCAGAGAATGAA
 AAAGACTCCAGGAGGCGCAAGCCCGGCTGCAGAAAGAGCTTGCAGAAGCAGCAAAGGAACCTCTACCAG
 TCGAACAGGATGATGACATTGAGGTCATTGTGGATGAACTTCTGATCACACAGAAGAGACCTCTCTGT
 GCGAGCCATCAGCAGAGCAGCCACTAAGCGACTCTCGCAGCCTGCTGGAGGCTTCTGGATTCTATCACT
 AATATCTTTGGGAGACGCTCTGTCTCTTCCCTCCAGTCCCCAGGACAATGTGGATACTCATCTGGTT
 CTGGTAAAGAAGTGAGGGTACCAGCTACTGCCTTGTGTCTTCGATGCACATGATGGGGAAGTCAACGC
 TGTGCAGTTCAGTCCAGGTTCCCGGTTACTGGCCACTGGAGGCATGGACCGCAGGTTAAGCTTTGGGAA
 GTATTTGGAGAAAAATGTGAGTTCAAGGGTCCCTATCTGGCAGTAATGCAGGAATACAAGCATTGAAT
 TTGATAGTGTGGATCTTACCTTTAGCAGCTTCAAATGATTTTGAAGCCGAATCTGGACTGTGGATGA
 TTATCGATTACGGCACACACTCACGGGACACAGTGGGAAAGTGCTGTCTGCTAAGTTCCTGCTGGACAAT
 GCGCGGATTGTCTCAGGAAGTACGACCGGACTCTCAAATCTGGGATCTACGCAGCAAAGTCTGCATAA
 AGACAGTGTTCAGGATCCAGTTGCAATGATATTGTCTGCACAGAGCAATGTGTAATGAGTGGACATTT
 TGACAAGAAAAATCGTTTCTGGGACATTCGATCAGAGAGCATAGTTCGAGAGATGGAGCTTTGGGAAA
 ATTACTGCCCTGGACTTAAACCCAGAAAGGACTGAGCTCCTGAGCTGCTCCCGTATGACTTGTAAAAG
 TTATTGATCTCCGAACAAATGCTATCAAGCAGACATTCAGTGCACCTGGGTTCAAGTGGCGCTGACTG
 GACCAGAGTTGTCTTCAAGCCTGATGGCAGTTACGTGGCGGCAGGCTCTGCTGAGGGCTCTCTGTATATC
 TGGAGTGTCTCACAGGAAAGTGGAAAAGTTCTTTCAAAGCAGCACAGCTCATCCATCAATGCGGTGG
 CGTGGTCGCCCTCTGGCTCGCACGTTGTCAGTGTGGACAAAGGATGCAAAGCTGTCTGTGGGCACAGTA
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216728 representing NM_030803
 Red=Cloning site Green=Tags(s)

MSSGLRAADFPRWKRHISEQLRRRDLRQRQAFEEIILQYNKLEKSDLHSVLAQKLQAEKHDVPRHEIS
 PGHDGTWQNDLQEMALRIKHQEELTELHKKRGELAQVIDLNNQMQRKDREMQMNEAKIAECLQTISD
 LETECLDLRKLCDLERANQTLKDEYDALQITFTALEGKLRKTEENQELVTRWMAEKAQEAANRLNAENE
 KDSRRRQARLQKELAEAAKEPLPVEQDDIEVIVDETSDHTEETSPVRAISRAATKRLSQPAGLLDSIT
 NIFGRRSVSSFPVQDNVDTHPVGSGKEVRVPATALCVFDAHDGEVNAVQFSPGSRLLATGGMDRRVKLWE
 VFGEKCEFKGSLSGSNAGITSIEFDSAGSYLLAASNDFASRIWTVDYRRLRHTLTGHSGKVLAKFLLDN
 ARIVSGSHDRTLKLDLRSKVCIKTVFAGSSCNDIVCTEQCVMSGHFDDKIRFWDIRSEIVREMLLGLK
 ITALDLNPERTELLSCSRDCLKVIDLRTNAIKQTFAPGFKCGSDWTRVVFSPDGSYVAAGSAEGLYI
 WSVLTGKVEKVLKQHSINAVAWSPSGSHVVSVDKGGCKAVLWAQY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_030803

ORF Size: 1821 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_030803.7](#)

RefSeq Size: 3411 bp

RefSeq ORF: 1824 bp

Locus ID: 55054

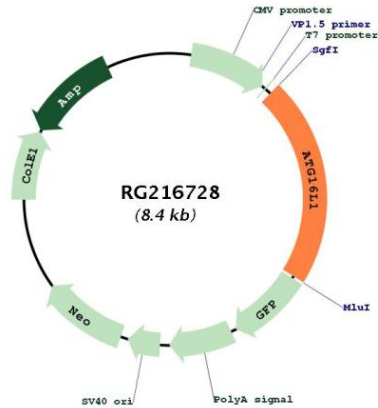
UniProt ID: [Q676U5](#)

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]

Product images:



Circular map for RG216728