

Product datasheet for **RC219270**

ATG16L2 (NM_033388) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG16L2 (NM_033388) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATG16L2
Synonyms:	ATG16B; WDR80
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC219270 representing NM_033388
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCGGGCGGGCGTCCCCGGTGCCCCCGCAGCGCGCTGGAACGCCACATCGTGCGGCAGCTGCGGC
 TTCGGGACCGTACGCAAAAGGCGCTTTTCTGGAGCTGGTGCCGGCCTATAACCATCTCTTAGAGAAGGC
 TGAGCTGCTGGACAAGTTCTCAAAGAAGCTGCAGCCGGAGCCAAACAGTGTCACTCCACCAACCCACAG
 GGCCCTGGGAGGAGTCAGAGCTTGACTCAGACCAAGTCCATCACTGGTCGCACTGAGGGTGAAGTGGC
 AGGAGGAGGAGGAGGGCTCCGGCTGGTCTGTGGTGAGATGGCCTACCAGGTGGTGGAGAAGGGCGCGGC
 CCTGGGCACGCTGGAGTCGGAGCTGCAGCAGAGGCAAAGCAGGCTGGCAGCCCTGGAGGCCCGCTGGCG
 CAGCTGCGAGAGGCGGGCGCAGCAGGCCAGAGGTGGAGGAGTGGCGGGCGCAGAATGCGGTGCAGC
 GGGCAGCCTACGAGGCGCTGCGCGCGCAGCTCGGGCTCCGGGAGGCGGCACTGCGCAGGCTCCAGGAAGA
 GCGCGCGACCTGCTGGAGAGGCTCGTGCAGCGCAAGGCGCGCGCGCGCGGCGGAGCGCAACCTGCGCAAC
 GAGCGCCGGGAGCGGGCCAAGCAGGCGCGGGTGTCCAGGAGCTGAAGAAGGCTGCCAAGCGGACCGTGA
 GCATCAGCGAGGGCCCGGACACCTAGGCGATGGGATGAGGGAGAGAAGGGAGACTCTGGCTCTGGCCCC
 TGAGCCAGAGCCCTGGAGAAGGAAGCTTGTGAGAAGTGAAGAGGCCCTTCAGGTCTGCCTCAGCCACC
 TCCCTGACGCTGTCCACTGTGTGGATGTGGTGAAGGGGCTTCTGGATTTTAAGAAGAGGAGAGGTCACT
 CAATTGGGGGAGCCCTGAGCAGCGATACCAGATCATCCCTGTGTGTGGCTGCCGACTTCTACCCG
 GGCTCAGGATGTGCTGGATGCCACCTCTCTGAGGTCAATGCTGTTCTGTTTGGCCCCAACAGCAGCCTC
 CTGGCCACTGGAGGGGCTGACCGCTGATCCACCTCTGGAATGTTGTGGGAAGTCGCCTGGAGGCCAACC
 AGACCTTGAGGGAGCTGGTGGCAGCATCACCAGTGTGGACTTTGACCCCTCGGGCTACCAAGTTTAGC
 AGCAACTTACAACAGGCTGCCAGCTCTGGAAGGTGGGGAGGCACAGTCCAAGGAGACACTGTCTGGA
 CACAAGGATAAGGTGACAGCTGCCAAATTAAGCTAACGAGGCACAGGAGTGAAGTGGGAGCCGCGACC
 GGACAGTGAAGGAGTGGGACCTCGGCCGTGCCTATTGCTCCAGGACCATCAATGTCCTTTCTACTGTAA
 TGACGTGGTGTGGGGACCATATCATATTAGTGCCACAATGACCAGAAGATCCGGTCTGGGACAGC
 AGGGGGCCCCACTGCACCCAGGTATCCCTGTGCAGGGCCGGGTACCTCCCTGAGCCTCAGCCACGACC
 AACTGCACCTGCTCAGCTGTTCCCGAGACAACACACTCAAGGTATCGACCTGCGTGTGACGAACATCCG
 CCAGGTGTTGAGGGCGATGGCTTCAAGTGTGGTCTGACTGGACCAAAGCTGTGTTGAGCCCGGACAGA
 AGCTATGCACTGGCAGGCTCCTGTGATGGGGCCCTTACATCTGGGATGTGGACACCGGAACTGGAGA
 GCAGACTACAGGACCCATTGCGCTGCCGTCAACGCCGTGGCCTGGTGTACTCCGGGAGCCACATGTT
 GAGCGTGGACCAGGGCAGGAAGTTGTGCTCTGGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219270 representing NM_033388
 Red=Cloning site Green=Tags(s)

MAGPGVPGAPAAWRKHIVRQLRLRDRTQKALFLELVPAYNHLEKAELLDKFSKKLQPEPNSVPTTHQ
 GPWEESELDSDQVPSLVALRVKQEEEEGLRLVCGEMAYQVVEKGAALGTLESELQQRQSRLALEARVA
 QLREARAQQAQQVEEWRAQNAVQRAAYEALRAHVGLREALRLQEEARDLLERLVQRKARAAAERNLRN
 ERRERAKQARVSQELKKAARTVSISEGPDTLGDGMRERRETLALAPEPEPELEKEACEKWKRPFRSASAT
 SLTLSHCVDVVKGLLDFKKRRGHSIGGAPEQRYQIIPVCVAARLPTRAQDVLDAHLSEVNAVRFPGNSSL
 LATGGADRLIHLWNVVGSRLEANQTLEGAGGSITSVDFDPSGYQVLAATYNQAAQLWKVGEAQSKETLSG
 HKDKVTAAKFKLTRHQAVTGSRDRTVKEWDLGRAYCSRTINLVSYCNDVVCGDHIIISGHNDQKIRFWD
 RGPCHTQVIPVQGRVTSLSLSDQLHLSCSRDNTLKVIDLRSNIRQVFRADGFKCGSDWTKAVFSPDR
 SYALAGSCDGLYIWDVDTGKLESRLQGPCHAAVNAVWCYSGSHMVSVDQGRKVVWLWQ

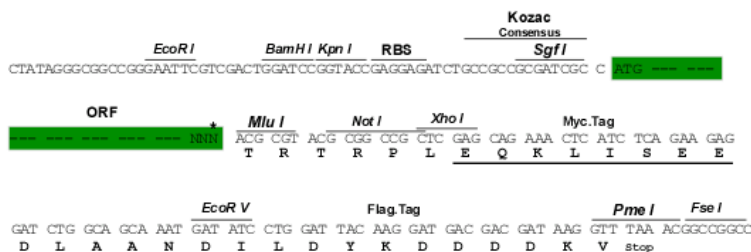
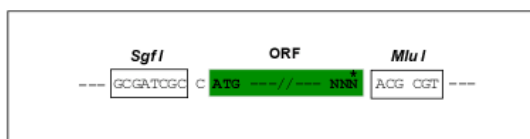
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1402_e05.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 033388

ORF Size: 1857 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.

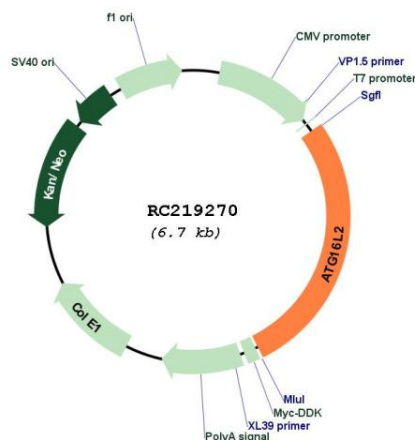
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM 033388.2

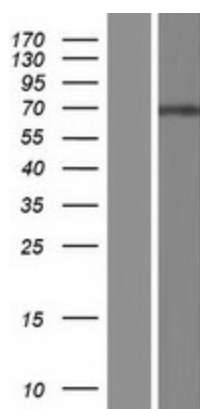
RefSeq Size: 2160 bp

RefSeq ORF:	1860 bp
Locus ID:	89849
UniProt ID:	Q8NAA4
Cytogenetics:	11q13.4
MW:	68.8 kDa
Gene Summary:	May play a role in autophagy.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC219270



Western blot validation of overexpression lysate (Cat# [LY409571]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219270 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).