

Product datasheet for **RG219270**

ATG16L2 (NM_033388) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG16L2 (NM_033388) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATG16L2
Synonyms:	ATG16B; WDR80
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219270 representing NM_033388
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGGGCGTCCCCGGTGCCCCCGCAGCGCGCTGGAACGCCACATCGTGCGGCAGCTGCGGC
 TTCGGGACCGTACGCAAAAGGCGCTTTTCTGGAGCTGGTGCCGGCCTATAACCATCTCTTAGAGAAGGC
 TGAGCTGCTGGACAAGTTCTCAAAGAAGCTGCAGCCGGAGCCAAACAGTGTCACTCCACCAACCCACAG
 GGCCCTGGGAGGAGTCAGAGCTTGAAGTCAAGTCCATCACTGGTCGCACTGAGGGTGAAGTGGC
 AGGAGGAGGAGGAGGGCTCCGGCTGGTCTGTGGTGAGATGGCCTACCAGGTGGTGGAGAAGGGCGCGGC
 CCTGGGACGCTGGAGTCGGAGCTGCAGCAGAGGCAAAGCAGGCTGGCAGCCCTGGAGGCCCGCTGGCG
 CAGCTGCGAGAGGCGGGCGCAGCAGGCCAGAGGTGGAGGAGTGGCGGGCGCAGAATGCGGTGCAGC
 GGGCAGCCTACGAGGCGCTGCGCGCGCAGCTCGGGCTCCGGGAGGCGGCACTGCGCAGGCTCCAGGAAGA
 GCGCGCGACCTGCTGGAGAGGCTCGTGCAGCGCAAGGCGCGCGCGCGCGGCGGAGCGCAACTGCGCAAC
 GAGCGCCGGGAGCGGGCCAAGCAGGCGCGGGTGTCCAGGAGCTGAAGAAGGCTGCCAAGCGGACCGTGA
 GCATCAGCGAGGGCCCGGACACCTAGGCGATGGGATGAGGGAGAGAAGGGAGACTCTGGCTCTGGCCCC
 TGAGCCAGAGCCCTGGAGAAGGAAGCTTGTGAGAAGTGAAGAGGCCCTTCAGGTCTGCCTCAGCCACC
 TCCCTGACGCTGTCCACTGTGTGGATGTGGTGAAGGGGCTTCTGGATTTTAAGAAGAGGAGAGGTCACT
 CAATTGGGGGAGCCCTGAGCAGCGATACCAGATCATCCCTGTGTGTGGTGCCCGACTTCTACCCG
 GGCTCAGGATGTGCTGGATGCCACCTCTCTGAGGTCAATGCTGTTCTGTTTGGCCCCAACAGCAGCCTC
 CTGGCCACTGGAGGGGCTGACCGCTGATCCACCTCTGGAATGTTGTGGGAAGTCGCTGGAGGCCAACC
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 AGCAACTTACAACAGGCTGCCAGCTCTGGAAGGTGGGGGAGGCACAGTCCAAGGAGACACTGTCTGGA
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 GGACAGTGAAGGAGTGGGACCTCGGCCGTGCCTATTGCTCCAGGACCATCAATGTCCTTTCTACTGTAA
 TGACGTGGTGTGTGGGACCATATCATATTAGTGCCACAATGACCAGAAGATCCGGTCTGGGACAGC
 AGGGGGCCCCACTGCACCCAGGTATCCCTGTGCAGGGCCGGGTACCTCCCTGAGCCTCAGCCACGACC
 AACTGCACCTGCTCAGCTGTTCCCGAGACAACACACTCAAGGTATCGACCTGCGTGTGACGAACATCCG
 CCAGGTGTTGAGGGCGATGGCTTCAAGTGTGGTCTGACTGGACCAAGCTGTGTTGAGCCCGGACAGA
 AGCTATGCACTGGCAGGCTCCTGTGATGGGGCCCTTACATCTGGGATGTGGACACCGGGAACTGGAGA
 GCAGACTACAGGACCCATTGCGCTGCCGTCAACGCCGTGGCCTGGTGTACTCCGGGAGCCACATGGT
 GAGCGTGGACCAGGGCAGGAAGTTGTGCTCTGGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

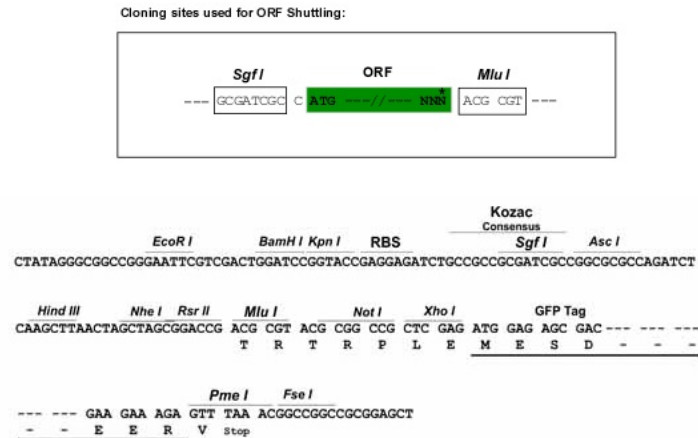
>RG219270 representing NM_033388
 Red=Cloning site Green=Tags(s)

MAGPGVPGAPAAWRKHIVRQLRLDRDQKALFLELVPAYNHLEKAELLDKFSKKLQPEPNSVPTTHQ
 GPWEESELDSDQVPSLVALRVKWQEEEEGLRLVCGEMAYQVVEKGAALGTLESELQQRQSRLALEARVA
 QLREARAQQAQQVEEWRAQNAVQRAAYEALRAHVGLREALRRLQEEARDLLERLVQRKARAAAERNLRN
 ERRERAKQARVSQELKKAARKTVSISEGPDTLGDGMRERRETLALAPEPEPEKEACEKWKRPFRSASAT
 SLTLSHCVDVVKGLLDFKKRRGHSIGGAPEQRYQIIPVCVAARLPTRAQDVLDAHLSEVNAVRFGNSSL
 LATGGADRLIHLWNVVGSRLEANQTLEGAGGSITSVDFDPSGYQVLAATYNQAAQLWKVGEAQSKETLSG
 HKDKVTAAKFKLTRHQAVTGSRDRTVKEWDLGRAYCSRTINVLSYCNDDVVCGDHIIISGHNDQKIRFWDS
 RGPHTQVIPVQGRVTSLSLSDQLHLSCSRDNTLKVIDLRSNIRQVFRADGFKCGSDWTAKVFSPPDR
 SYALAGSCDGLYIWDVDTGKLESRLQGPCHAAVNAVAWCYSGSHMVSVDQGRKVVWLWQ

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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.

RefSeq: [NM_033388.2](#)

RefSeq Size: 2160 bp

RefSeq ORF: 1860 bp

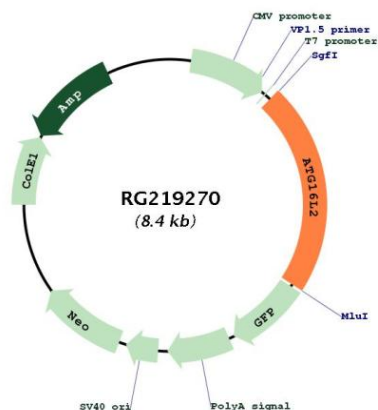
Locus ID: 89849

UniProt ID: [Q8NAA4](#)

Cytogenetics: 11q13.4

Gene Summary: May play a role in autophagy.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG219270