

Product datasheet for **MG217776**

Atg9b (NM_001002897) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg9b (NM_001002897) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atg9b
Synonyms:	Apg9l2; Apg912; Apgdc2; eONE; Gm574; Nos3as; sONE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217776 representing NM_001002897
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGAGACGAACGGGGTGGGGGGGAGCAGGAGGCAACGGGGCGGTGGGGAGACTTGGGGCCAGCT
 CAGTGCCTCTGCTCCCTATGGCACTGCCACTGCCTGCTTCTCCATGCCGGGAAC TGGGGGAAGGAGGAT
 CTCTGTCTTCTCTGTCCCTGCCCTCGCACAGAAGCTGCTCCTCTTCAGTGTTCCTCCGGCCTCA
 GGGTCTCCCTGCCTGGTATTACAGGAGGACGGGCTTCTCAGACTCCACACAATGTCTTACCACCCCGA
 CCACACCCCTAACGCAGGCCATCCACAATGATACACACTCTGCTTCCCCCTCGTGGGGTCCCCTC
 CACCCACCCCTGGCCTCGGCCACTCCCCCTCCCTCTGCCCGGCCCCAGGACCATCTGGGTGCGG
 ATGGGCCCTCTGATCCCTGAGCAGGACTATGAACGGCTAGAGGACTGTGACCCTGAGGGTCTCAAGACT
 CCCCTATCCATGGGGAGGACCACCAACCCTTGCTTCATGTACCCGAAGGACTCCGCGTTCTGGCATCA
 CATCCAGAACCTGGACAGTTTTTTCACCAAGATCTACAGTATCATCAGCGGAATGGCTTTCCTGTATC
 CTGCTGGAGGATGCTTCCAGCTGGGGCAGTTCATTTTCATTGTACCTTTACAACCTTCTCCTTCGCT
 GCGTGGATTACAATGTTCTCTTCAACAACCAACCAAGAACCATACAAGACGTGGACCATTACACAGCAA
 AGTGACCTTGTGAGATGCCATTCTACCCTCGGCCAGTGTGCAGAGAAGATCCACGACAGTCCCCTGTTG
 GTCTTCTCCTAGTCTGGCTGTGGCTTCTGGCTGTTCCAGCTGCTTCGCTCGGTCTGCAACCTTTCA
 GCTACTGGGACATCCAGGTGTTTTACAGGGAGGCCCTGCACATTCACCCAGAGGAGCTCAGCTCGGTACC
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 CTGACGGAACCTGGACGTCCACCACCGCATCTCGCTACACCAACTACCAGGTAGCGTTAGCCAACAAG
 GCTCTGCTGCCCTGCCCGCTGCCCGCTGGGGGAGCAGCGCGCTTCTCAGCCGGCCTGGCGCT
 CAACGTGGACTTGTCTCTTCCGCGGTCCCTTCTCACTTCCGCGGGGCTGGGAGCTTCCCGAAGCC
 TACAAGCGCAGCGACCTCCGGGGCTCCTGGCTAACCGCTGGCGGCGCACGGTGTGCTGTGGCCGCCG
 TGAACCTGGCCCTGAGCCCGCTGGTGTGGCTGGCAGGTATTGCACGCCTTCTACAGCCAGTGGAGCT
 GCTGCGGCGAGCCCGGAGCCTTCGGGGCGCGCTGGTCCCGCTGGCCCGCTGCAGCTTCGCCAC
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 CTTTCCCGCTGCTAGTGTCCACATCTACGATGAGGACGTGTTGGCCGTGGAGCATGTGCTCACTACC
 ATGACGGCGCTCGGGTACAGCCACTGTGCCAGGTCTTTCATTCCAGAAGAGCAATGCCAGGGCGTT
 CCTCCAGCTTCTGCTGCAGGCAGCCCTGGCGCATGCATTACCTCCAGAGGAGCCTGGTGAACGGG
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 CTCTGTCTCCACTCCTGACCCATTGTTTCTGCTCTTCTGGTTCGCCCCCGTGTCTGGAGATTATTG
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 GATGGAAGACCGAACTCCTTAATGCGGTTCTCCCTGGCACACCCACAATGGCAGCCACCAGGGCACA
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 CTCTTGGTAAATCCCCGCCACCCAGAGGGACCTGAGTCCACAGCCCCCTGCCCTGCTGCAGCCACAG
 CCAGCCTCCTTGCTCTATTTACGAATGGTCCAGGACCCAGCTGTGTGTCACAGGAGCACAGGGG
 CCAGAAGCTGACCCAGCTCCAGAGCTTGTCTGCTGAGATGAGCTCCACGCTATTTACCTACATCAG
 CTTTCATCAACAGCAGCAGCAAGAACTATGGGGAGAGGCTTTCAGCTTCTCCCATCCAGGCCCTGGTCCA
 GCCCTTACAGCCAGGCTCACCTGATGAGGAGAAGCCATCTTGGTCAAGTGTGCTCCAGTCTGCTTC
 TAGCCCAAGACAACAGTGGGGCACCCAGAGGGCCAGAATCTGTTCCCAAGGGGTTTCAGGAGAACACA
 GACACCCAGAAGGAGCCCTAACAGGCCCTTGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217776 representing NM_001002897
 Red=Cloning site Green=Tags(s)

MVRRTGWGGSRRQRGRWGDLGPSSVPLLPMALPLPASPCRGTGGRRISVFSLSPAPRTRSCSSSVFPAS
 GSPCLVIQEAGASQTPHNVLPTPTTSTQAHPTMIHTSASPSWGSHTPPLASATPPPSCPRPDHPGLR
 MGPLIPEQDYERLEDCPEGSQDSPIHGEDHQPLLHVPEGLRGSWHHIQNLDSFFTKIYSYHQNGFACI
 LLEDVFQLGQFIFIVTFTTFLLRCDYDYNVLFNNQPKNHTRRGLHSHKVTLSDAIILPSAQCAEKIHDSPLL
 VFLLVLAAGFWLFQLLRVSNLFSYWDIQVFYREALHIPPEELSSYPWAEVQSRLELQSRGGLCVQPRP
 LTLEDVHHRILRYTNYQVALANKLLPARCPLPWGSSAAFLSRGLALNVDLLLFRGPFSLFRGGWELPEA
 YKRSDLRGLVANRWRRTVLLAAVNLALSPLVLAWQVLHAFYSHVELLRREPGAFGARRWSRLARLQLRH
 FNELPHELRLARLGRAYRPAFLRAAEPAPLRALLARQLVFFSGALFAALLVLTIIYDEDVLAHEHVLTT
 MTALGVTATVARSFIPPEEQCGRSSQLLQAALAHMHYLPPEPGATGARASSYWQMAQLLQYRAVSLLEE
 LLSPLLTPFLFWFRPRALEIIDFFHHFTVDVAGVGDICSFALMDVKRHGHPQWLSEGQTEASLSQRAE
 DGKTELSLMRFLAHPQWQPPGHSSKFLGHLRGRVQDDAAAWGAPSTRSPPTPGVLSDCTSPLEAFLAN
 LLVNP RP PQRDL SPTAPCAAATASLLASISRMVQDPSCVSPGGTGGQKL TQLPELVSAEMSLHAIY LHQ
 LHQQQQQELWGEASASSPSRPWSSPSQPGSPDEEKPSWSSDGSSPASSPRQWGTQRAQNLFPKGFQENT
 DTQKEPLTGPLH

TRTRPLE - GFP Tag - V

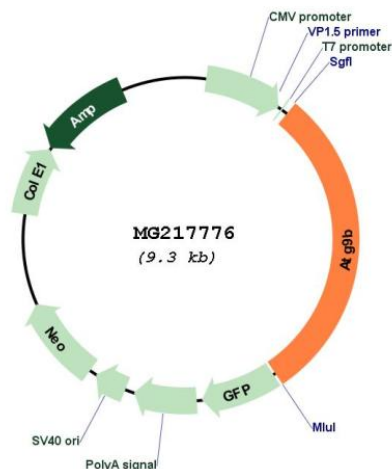
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001002897

ORF Size: 2766 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_001002897.3](#), [NP_001002897.2](#)

RefSeq Size: 3902 bp

RefSeq ORF: 2769 bp

Locus ID: 213948

UniProt ID: [Q6EBV9](#)

Cytogenetics: 5 11.49 cM

Gene Summary:

Involved in autophagy and cytoplasm to vacuole transport (Cvt) vesicle formation. Plays a key role in the organization of the preautophagosomal structure/phagophore assembly site (PAS), the nucleating site for formation of the sequestering vesicle.[UniProtKB/Swiss-Prot Function]