

Product datasheet for **MR217776**

Atg9b (NM_001002897) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg9b (NM_001002897) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atg9b
Synonyms:	Apg9l2; Apg912; Apgdc2; eONE; Gm574; Nos3as; sONE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217776 representing NM_001002897
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGAGACGAACGGGGTGGGGGGGAGCAGGAGGCAACGGGGCGGTGGGGAGACTTGGGGCCAGCT
 CAGTGCCTCTGCTCCCTATGGCACTGCCACTGCCTGCTTCTCCATGCCGGGAAC TGGGGGAAGGAGGAT
 CTCTGTCTTCTCTGTCCCTGCCCTCGCACAGAAGCTGCTCCTCTTCA GTTTCCTCCGGCCTCA
 GGGTCTCCCTGCCTGGTATT CAGGAGGCAGGGGCTTCTCAGACTCCACACAATGTCTTACCACCCCGA
 CCACACCCCTAACGCAGGCCATCCACAATGATACACACTCTGCTTCCCCCTCGTGGGGTCCCCTC
 CACCCACCCCTGGCCTCGGCCACTCCCCCTCCCTCTGCCCGGCCCCAGGACCATCTGGGCTGCGG
 ATGGGCCCTCTGATCCCTGAGCAGGACTATGAACGGCTAGAGGACTGTGACCCTGAGGGGTCTAAGACT
 CCCCTATCCATGGGGAGGACCACCAACCCTTGCTT CATGTACCCGAAGGACTCCGCGTTCTGGCATCA
 CATCCAGAACCTGGACAGTTTTTTCACCAAGATCTACAGCTATCATCAGCGGAATGGCTTTGCCTGTATC
 CTGCTGGAGGATGCTTCCAGCTGGGGCAGTTCA TTTTCATTGTACCTTTACAACCTTCTCCTTCGCT
 GCGTGGATTACAATGTTCTCTTCAACAACCAACCAAGAACCATACAAGACGTGGACCATTACACAGCAA
 AGTGACCTTGT CAGATGCCATTCTACCCTCGGCCAGTGTGCAGAGAAGATCCACGACAGTCCCCTGTTG
 GTCTTCTCCTAGTCTGGCTGTGGCTTCTGGCTGTTCCAGCTGCTTCGCTCGGTCTGCAACCTTTCA
 GCTACTGGGACATCCAGGTGTTTTACAGGGAGGCCCTGCACATCCCCCAGAGGAGCTCAGCTCGGTACC
 CTGGGCCGAGGTGCAGTCTCGCTCCTGGAAGTGCAGAGGAGCGGTGGGCTGTGTGTGCAGCCGCGGCCG
 CTGACGGAAGTGGACGTCCACCACCGCATCTCGCTACACCAACTACCAGGTAGCGTTAGCCAACAAGG
 GTCTGCTGCCGCTGCCGCTGCCGCTGGGGGAGCAGCGCGCTTCTCAGCCGGCCTGGCCTGGCCG
 CAACGTGGACTTGTCTCTTCCGCGGTCCCTTCTCACTTCCGCGGGGGCTGGGAGCTTCCCGAAGCC
 TACAAGCGCAGCGACCTCCGGGGCGTCTGGCTAACCGCTGGCGGCGCACGGTGTGCTGTGCGCCCG
 TGAACCTGGCCCTGAGCCCGCTGGTGTGGCTGGCAGGTATTGCACGCCTTCTACAGCCAGTGGAGCT
 GCTGCGGCGGAGCCCGGAGCCTTCGGGGCGCGCGTGGTCCCGCTGGCCCGCTGCAGCTTCGCCAC
 TTTAACGAGCTGCCGCACGAGCTGCGTGC GCGCTGGGCCGCGCTACCGCCCGCCGCGCTTCTCTGC
 GTGCAGCGGAGCCCCAGCTCCCCTGCGCGCTGCTGGCCCGCAGCTGGTCTTCTCTCGGGAGCTCT
 CTTTCCGCGCTGCTAGTGCTCACCATCTACGATGAGGACGTGTTGGCCGTGGAGCATGTGCTCACTACC
 ATGACGGCGCTCGGGTACAGCCACTGTGCCAGGTCTTCATTCCAGAAGAGCAATGCCAGGGCGTT
 CCTCCCAGCTTCTGCTGCAGGCAGCCCTGGCGCATGCATTACCTCCCAGAGGAGCCTGGTGAACGGG
 TGCTCGAGCCAGCTTACTGGCAGATGGCGAGCTGCTTCAGTACCGAGCAGTCTCCCTCCTGGAAGAG
 CTCTGTCTCCACTCCTGACCCATTGTTTCTGCTCTTCTGGTTCGCCCCCGTGTCTGGAGATTATTG
 ACTTTTTTCACTTCACTGTGGATGTGGCTGGTGTAGGGGACATCTGTTCTTTTGCAATTAATGGATG
 GAAGCGCCACGGGCATCCTCAGTGGCTTTCAGAGGGACAGACAGAGGCCCTCACTCTCAGCGTGCAGAG
 GATGGAAGACCGAACTCCTTAATGCGGTTCTCCCTGGCACACCCACAATGGCAGCCACCAGGGCACA
 GCTCTAAGTTCCTTGGACACCTTCGGGGCCGGTACAACAAGATGCAGCTGCCTGGGTGCTCCCTCGAC
 TCGGAGTCCCCCACCAGGAGTGTCTAGTACTGTACATCCCCTCTGCCAGAAGCCTTCTTGGCAAC
 CTCTTGGTAAATCCCCGCCACCCAGAGGGACCTGAGTCCACAGCCCCCTGCCCTGCTGCAGCCACAG
 CCAGCCTCCTTGCTCTATTTACGAATGGTCCAGGACCCAGCTGTGTGTC CCGAGGACACAGGGG
 CCAGAAGCTGACCCAGCTCCCAGAGCTTGTCTCTGCTGAGATGAGCTCCACGCTATTTACCTACATCAG
 CTTTCATCAACAGCAGCAGCAAGAACTATGGGGAGAGGCTT CAGCTTCTCCCATCCAGGCCCTGGTCCA
 GCCCTTACAGCCAGGCTCACCTGATGAGGAGAAGCCATCTTGGTCAAGTGTGCTCCAGTCTGCTTC
 TAGCCCAAGACAACAGTGGGGCACCCAGAGGGCCAGAATCTGTTCCCAAAGGGTTTCAGGAGAACACA
 GACACCCAGAAGGAGCCCTAACAGGCCCTTGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217776 representing NM_001002897
 Red=Cloning site Green=Tags(s)

MVRRTGWGGRRQRGRWGDLGPSSVPLLPMALPLPASPCRGTGGRRISVFSLSPAPRTRSCSSSVFPPAS
 GSPCLVIQEAGASQTPHNVLPTPTTSTQAHPTMIHTSASPWSGSHSTPPLASATPPPSCPRPDHPGLR
 MGPLIPEQDYERLEDCPEGSQDSPIHGEDHQPLLHVPEGLRGSWHHIQNLDSFFTKIYSYHQNGFACI
 LLEDVFLQGQFIFIVTFTTFLRLCYDYNVLFNNQPKNHTRRGPLHSHKVTLSDAILPSAQCAEKIHDSPLL
 VFLLVLAAGFWLFQLLRVSNLFSYWDIQVFYREALHIPPEELSSVPWAEVQSRILLELQRSGLCVQPRP
 LTELDVHHRILRYTNYQVALANKLLPARCPLPWGSSAAFLSRGLALNVDLLLFRGPFSLFRGGWELPEA
 YKRSDLRGVLANRWRRTVLLAAVNLALSPLVLAWQVLHAFYSHVELLRREPGAFGARRWSRLARLQLRH
 FNELPHELRLARLGRAYRPAFAFLRAAEPAPLRALLARQLVFFSGALFAALLVLTIIDEDVLAVEHVLTT
 MTALGVTATVARSFIPPEEQCGRSSQLLQAALAHMHYLPPEPGATGARASSYWQMAQLLQYRAVSLLEE
 LLSPLLTPLLFLLFWFRPRALEIIDFFHHFTVDVAGVGDICSFALMDVKRHGHPQWLSEGQTEASLSQRAE
 DGKTELSLMRFLAHPQWQPPGHSSKFLGHLRGRVQDAAAWGAPSTRSPPTPGVLSDCTSPLEAFLAN
 LLVNRPPQRDLSPTAPCAAATASLLASISRMVQDPSCVSPGGTGGQKLTLPELVSAEMSLHAIYHLHQ
 LHQQQQQELWGEASASSPSRPWSSPSQPGSPDEEKPSWSSDGSSPASSPRQWGTQRAQNLFPKGFQENT
 DTQKEPLTGPLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



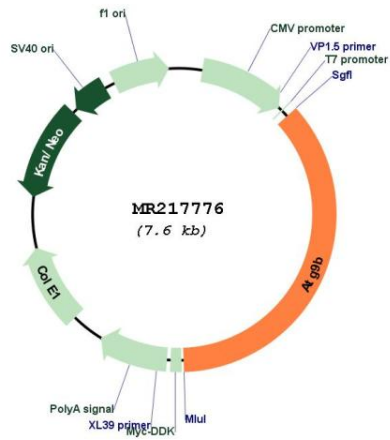
* The last codon before the Stop codon of the ORF

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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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
MW:	102.4 kDa
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]

Product images:



Circular map for MR217776