

Product datasheet for **MC203381**

Atg4d (NM_153583) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg4d (NM_153583) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg4d
Synonyms:	9830134P12Rik; APG4-D; Apg4d; Atg4dl; Autl4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC069851
 GGGAGCCCGGGTATCCGCTGCGGCCAGAGCCGGACCCGGGAGCCCGGCTCTGAGTATAGAGTAACACTGT
 GCTGGCCCGGGGCTGCTCCCGAGCGTTTCGAGTTCCTCCGGACCTCGGGGACACCTGCGTCTTCTCTC
 CGGCGGGTCCATGAACTCCGTGTGCGCGGCTGCGGCGCAGTACCGCAGCGGGAGCTCGGAGGACGCGCGC
 CGGGCCGATTGTCGCGCGCCGAGGGGACAAACCCGTATCCCGGATCCTAGCAACCTGGGACCTTCGGGGT
 CCGGAGTGGCAGCTCTCGGTTTCTGTTGGACAGACCCCGGAGCCCGACGAGGTGGACAAGTTCAAAGC
 CAAGTTCCTGACAGCCTGGAACAACGTCAAGTATGGTTGGGCAGTTAAAAGCCGGACCTTCAGCAAG
 ATCTCCACTGTTACCTCTGCGGGCGATGCTACCATTTTCGAGGGAGAGGGTGACATCCAGCGGTTTCAAA
 GGGACTTTGTATCTCGACTATGGCTCACATATCGCCGGGACTTCCACCCCTTGCTGGAGGCAGCCTGAC
 CTCAGACTGTGGCTGGGGATGTATGTTACGAAGTGGTCAGATGATGCTGGCCAGGGCCTGCTCCTGCAT
 TTTCTGCCTAGAGACTGGAGGTGGTGAAGGCACAGGCCTGGCTTCTCTGAGATGCCAGGGCCAGCCT
 CTCCCAGTCGCTGCCAGGGCCTGGTCGTCTGGGCCCAAGATGGACACAGGGTGCATGGAGATGGA
 GCAGGACCGTTGGCACCGGCGATTGTTTCTGGTTTCGCTGATCATCCACGGGCCCTTCGGTCTACAT
 CGGCTAGTGGAGCTTGGCGGAGCTCGGGCAAGAAGGCAGGAGACTGGTACGGGCCCTCTGTGGTGGCAC
 ACATCCTCAGGAAAGCTGTGGAGAGTTGCTCAGAAGTCAGCCGCCTGGTGGTGTACGTCTCTCAGGACTG
 CACAGTGTACAAGGCAGATGTAGCACGCCTGCTGTCTGGCCAGATCCTACAGCGGAGTGAAATCTGTG
 GTCATCCTGGTGCCTGTACGACTGGGCGGGGAGACCCCTTAACCCTGTGTACGTGCCTGTGTGAAGGAGC
 TTCTGCGTTTCAGAACTCTGTCTGGGCATCATGGGCGGCAAGCCCGGCATTCACTGTACTTCATTGGCTA
 TCAGGATGACTTTCTGCTCTACCTGGATCCTCACTACTGCCAGCCACAGTGGATGTGAGCCAGCCAGC
 TTCCCCCTGGAGTCTTTCACTGCACCTCGCCCGCAAGATGGCCTTTGCCAAGATGGACCCAGCTGTA
 CCGTGGGGTCTATGCTGGGAACAGGAAGGAGTTTGGACACTCTGCTCGGAGCTGATGAGGATCCTCAG
 CTCCTCCTCAGTCACGGAACGGTACCCCATGTTACAGTGGCTGAAGGCCACGCTCAGGACCACAGCCTG
 GATGCCCTGCACCCAGCTGTCCAGCCACTGCGGCTACCTTGACAGGACGACTACTCAAGGCCA
 AAAGGCCAGCTCCGAGGACTTTGTGTTTTATAATGGGAAGGGATGGGGAAGATGCCAGACTATTTAT
 TTTTTTATTTATGTCATGTCAGGTATGGGATCTGCAACTCCAGTGGTGGTGGTGGACCCCTGTCCTCATG
 TCCCCGTCTCCCAACACAGCTGAGACCTATCTGGGCCCCAGCTGCCCTGCCTCCTCAGGAGCCAGG
 GAAGGAGAGTGGGCTCCAGGGCACTCACTCAGGGCCTAATTCAAGTTCTGTAGCCTGCATTGGGTCACTG
 GTCCCAAGGTCCCAAAGTCTGTCTGGGAGAACTGACTGTGGCTGATAAAGATGCAGACTTGAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_153583

Insert Size: 1425 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC069851](#), [AAH69851](#)

RefSeq Size: 1924 bp

RefSeq ORF: 1425 bp

Locus ID: 235040

UniProt ID: [Q8BGV9](#)

Cytogenetics: 9 A3

Gene Summary: Cysteine protease ATG4D: Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3 and GABARAPL2, to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. Has also an activity of delipidating enzyme for the PE-conjugated forms.[UniProtKB/Swiss-Prot Function]