

Product datasheet for **MR207595**

Atg4d (NM_153583) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg4d (NM_153583) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atg4d
Synonyms:	9830134P12Rik; APG4-D; Apg4d; Atg4dl; Autl4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207595 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACCTCGGTGTCGCCGCTGCGGCGCAGTACCGCAGCGGGAGCTCGGAGGACGCGCGCCGGCCGATT
 GTCGCCGGCCGAGGGGACAAACCCGTATCCCGGATCCTAGCAACCTGGGACCTTCGGGGTCCGGAGTGGC
 AGCTCTCGGTTTCATCTGGGACAGACCCCGGAGCCGACGAGGTGGACAAGTTCAAAGCCAAGTTCCTG
 ACAGCCTGGAACAACGTCAAGTATGTTGGGAGTAAAGCCGGACAGCTTACGAAGATCTCCACTG
 TTCACCTCTGCGGGCGATGCTACCATTTGAGGGAGAGGGTGACATCCAGCAGTTTCAAAGGGACTTTGT
 ATCTCGACTATGGCTCACATATCGCCGGGACTTCCACCCTTGTGGAGGCAGCCTGACCTCAGACTGT
 GGCTGGGATGTATGTTACGAAGTGGTCAGATGATGCTGGCCAGGGCTGCTCCTGCATTTTCTGCCTA
 GAGACTGGAGTGGTGGAAAGGCACAGGCTGGCTTCTCTGAGATGCCAGGGCCAGCCTCTCCAGTCCG
 CTGCCGAGGGCTGGTCTGCTGGGCCCAAGATGGACACAGGGTGCAGTGGAGATGGAGCAGGACCGT
 TGGCACCGGGCGGATTGTTTCTGGTTCGCTGATCATCCACGGGCCCTTCGGTCTACATCGGCTAGTGG
 AGCTTGGGCGGAGCTCGGGCAAGAAGGCAGGAGACTGGTACGGGCCCTCTGTGGTGGCACACATCCTCAG
 GAAAGCTGTGGAGAGTTGCTCAGAAGTCAGCCGCTGGTGGTGTACGTCTCTCAGGACTGCACAGTGTAC
 AAGGCAGATGTAGCACGCTGCTGCTCGCCAGATCCTACAGCGGAGTGGAAATCTGTGGTTCATCCTGG
 TGCCTGTACGACTGGGCGGGGAGACCCTTAACCTGTGTACGTGCCCTGTGTGAAGGAGCTTCTGCGTTC
 AGAAGTCTGTCTGGGCATCATGGGCGCAAGCCCGGCATTCACTGTACTTATTGGCTATCAGGATGAC
 TTTCTGCTACCTGGATCCTCACTACTGCCAGCCACAGTGGATGTAGCCAGCCAGCTTCCCCTGGT
 AGTCTTTCACTGCACCTCGCCCGCAAGATGGCCTTTGCCAAGATGGACCCAGCTGTACCGTGGGTT
 CTATGCTGGGAACAGGAAGGAGTTTGAGACACTCTGCTCGGAGCTGATGAGGATCCTCAGCTCCTCTCA
 GTCACGGAACGGTACCCATGTTACAGTGGTGAAGGCCACGCTCAGGACCACAGCCTGGATGCCCTCT
 GCACCCAGCTGTCCAGCCACACTGCGGCTACCTGCACAGGACGACTACTCAAGGCCAAAAGGCCAG
 CTCGAGGACTTTGTGTTTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207595 protein sequence
 Red=Cloning site Green=Tags(s)

MNSVSPAAAQYRSGSSEDARRDCRRPRGQTRIPDPSNLGPSGSGVAALGSSGTDPAEPDEVDKFKAKFL
 TAWNNVKYGWAVKSRFSKISTVHLCGRCYHFEGEDIQQFQRDFVSRLLWLYRRDFPPLAGGSLTSDC
 GWGCMRLRSGQMMLAQGLLLHFLPRDWRWVEGTGLASSEMPGPASPSRCRGPGRRPRTQGALEMEQDR
 WHRRIVSWFADHPRAPFGLHRLVELGRSSGKAGDWYGPSVVAHILRKAVESCSEVSRLVVYVSQDCTVY
 KADVARLLSWDPPTAEWKSVVILVPVRLGGETLNPVYVPCVKELLRSELCLGIMGGKPRHSLYFYGYQDD
 FLLYLDPHYCQPTVDVSQPSFPLESFHCTSPRKMAFAKMDPSCTVGFYAGNRKEFETLCELMLRILSSSS
 VTERYPMTVAEGHAQDHLSDALCTQLSQPTLRLPCTGRLLKAKRPSSSEDFVFL

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

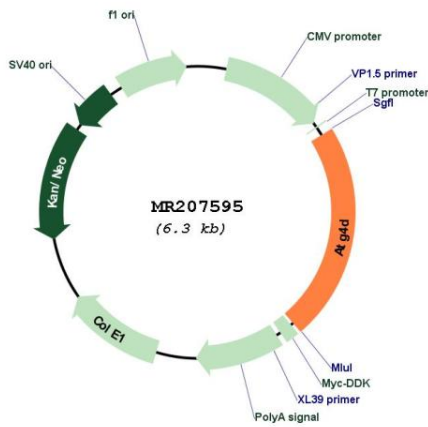
Sgfl-MluI

Cytogenetics: 9 A3

MW: 52.9 kDa

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]

Product images:



Circular map for MR207595