

Product datasheet for MG200886

Atg12 (NM 026217) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Atg12 (NM_026217) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Atg12

Synonyms: 4931423H11Rik; A330058M13Rik; Apg12l; Atg12l

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG200886 representing NM_026217

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCGGAAGATTCAGAGGTTGTCCTGCAGCTCCCCTCGGCTCCTGTAGGAGCCCGGCGGCGGAGAGCCTTC CAGAGCTCTCCCCGGAAACAGCCACCCCAGAGCCCCCGTCCTCGGCTGCAGTTTCGCCCCGGAACGGAGGA ACCTCCCGGAGACACCAAGAAAAAATTGACATCCTGCTGAAGGCTGTAGGAGACACTCCTATAATGAAA ACAAAGAAATGGGCTGTGGAGCGAACCCGGACCATCCAAGGACTCATTGACTTCATCAAAAAGTTCCTTA AACTGGTGGCCTCGGAACAGTTGTTTATTTATGTGAATCAGTCCTTTGCCCCTTCCCCAGACCAAGAAGT TGGAACTCTATATGAGTGTTTTTGGCAGTGATGGTAAACTGGTCCTGCATTACTGCAAATCCCAGGCATGG

GGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200886 representing NM_026217

Red=Cloning site Green=Tags(s)

MSEDSEVVLQLPSAPVGAGGESLPELSPETATPEPPSSAAVSPGTEEPPGDTKKKIDILLKAVGDTPIMK TKKWAVERTRTIQGLIDFIKKFLKLVASEQLFIYVNQSFAPSPDQEVGTLYECFGSDGKLVLHYCKSQAW

G

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



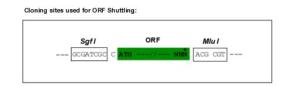
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

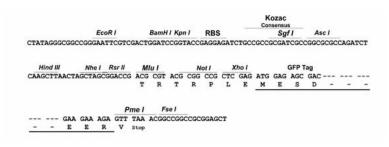
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





ACCN: NM_026217

ORF Size: 423 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 026217.3</u>

RefSeq Size: 2459 bp RefSeq ORF: 426 bp

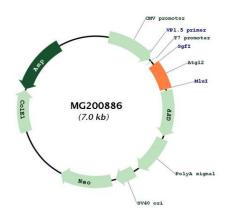


Locus ID: 67526 **UniProt ID:** Q9CQY1 18 C Cytogenetics:

Gene Summary: Ubiquitin-like protein involved in autophagy vesicles formation. Conjugation with ATG5

through a ubiquitin-like conjugating system involving also ATG7 as an E1-like activating enzyme and ATG10 as an E2-like conjugating enzyme, is essential for its function. The ATG12-ATG5 conjugate acts as an E3-like enzyme which is required for lipidation of ATG8 family proteins and their association to the vesicle membranes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG200886