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Product datasheet for MC225033

Atg2a (NM_194348) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg2a (NM_194348) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg2a
Synonyms:	1810013C15Rik; A830054M12; BC023754; mKIAA0404
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225033 representing NM_194348 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCACGATGGCTGTGGCCATGGTCGAACTGTGTGAAAGAGCGTGTCTGCCGCTACTTGCTACAGCACT ACTTGGGTCACTTCTTTCAGGAGCACCTCAGCCTGGACCAGCTCAGCCTGGATCTGTACAAGGGCAGCGT TGCCCTGCGGGATATTCACCTGGAAACCTGGTCTGTGAACGAGTTTTTGAGGTCAATGGAGTCACCACTG GAACTGGTGGAAGGCTTTGTGAGCTCCATCGAGGTGGCTGTCCCCTGGGCTGCACTTCTCACTGACCACT GCACTGTGTGTGTGTCAGGCCTTCAGCTTACCCTGCAGCCCCGCCAGGGTTCAGGACCAGGGGCTGCGGA CTCTCAGAGTTGGGCCTCATGCATGACCACAAGCTTGCAGCTGGCTCAAGAGTGCCTTCGGGAAGGGTTG CCAGAACCCTCAGAACCACCACAGCCCCTGGAGGGGCTGGAAATGTTTGCACAGACCATTGAGACTGTGC TCCGGAGGATCAAGGTGACCTTCCTGAACACTGTTGTGAGGGTGGAGCATTCACTGGGTGATGAGGATCG AAGTGTGGCTGTGGAGGTCCGAGTGCAGAGACTGGAGTACTGTGACGAAGCAGTGCGGGACCCCAGCCAG GCCCCACCTGTGGACGTGCACCAGCCGCCTGCCTTCCTGCACAAGCTGCTGCAGCTGAGTGGGGTCTGCC TATACTTTGAGGAGCTGCCCTCCCAGGCAGACCCACCACAGCCACCTCTGCAAATCGGCAGCTGCACGGG GTACGTGGAGCTCATGGTGAGGCTGAAGCAGAACGAGGCCTTTCCAGGCCCCAAGTTGGAGGTATCAGGA CAACTGGGATCCCTGCACCTGCTTTTGACCCCGCGTCAGCTCCAGCAGCTCCAGAGGCTGCTCAGTGCCG TCAACCTTGCAGACCCTGCAGGCCTGGCCGACAAGCTGAACAAGAGCCGTCCACTGGGTGCTGAGGACTT GTGGCTCATTGAGCAAGATCTGAACCAGCAGCTGCAGGCGGGTGCTGTGGCTGAGTCCCTCAGCCTGTAC CCCATCACCAACCCCCTCAATTTGGACAGCACGGACCTCTTCTTCTCCATGGCCGGCCTCACAAGCAGTG TGACATCGGCTGTCTCTGAGCTCTCCGTGTACAGCGTAGACCTGGGCTCCTCTGTTCACAGCAACATGGC CTTCCACCGACCCTCAACCCCACCCCACTCGGGTGGCAAGATGGCCCCAACTCCCCTTCTGGACACCACA CGCCCTGACTCACTGGTGAAGATGACCTTGGGCGGTGTGAGCTTGACCTTGCTGCAGACTGCTTCCCCGT CTTCAGGACCATCTGACCTCCCCACCCACTTTTTTGCTGAGTTCGATGCTGCCAAAGATGGGCCATTCGG CTCCCGGGACTTCTCCCATCTCAGGCCACGCTTCCAGAGGGCCTGCCCTTGTAGCCACGTCCGGTTAACT

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ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_194348

Insert Size: 5745 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.

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

RefSeq: NM_194348.3, NP_919329.2

RefSeq Size: 6340 bp

RefSeq ORF: 5745 bp

Locus ID: 329015

UniProt ID: Q6P4T0

Cytogenetics: 19 A

Gene Summary: Involved in autophagosome assembly, regulating the size of nascent autophagosomes. Also regulates lipid droplets morphology and distribution within the cell.[UniProtKB/Swiss-Prot Function]