

Product datasheet for MR200654

Map1lc3b (NM_026160) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Map1lc3b (NM_026160) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Map1lc3b
Synonyms: 1010001C15Rik; Atg8; LC3b; Map1lc3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200654 representing NM_026160
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGTCGGAGAAGACCTTCAAGCAGCGCCGGAGCTTTGAACAAAGAGTGAAGATGTCCGGCTCATCC
 GGGAGCAGCACCCACCAAGATCCAGTGATTATAGAGCGATACAAGGGGAGAAGCAGCTGCCCGTCCT
 GGACAAGACCAAGTTCCTGGTGCCTGACCACGTGAACATGAGCGAGCTCATCAAGATAATCAGACGGCGC
 TTGCAGCTCAATGCTAACCAAGCCTTCTCCTCCTGGTGAATGGGCACAGCATGGTGAGTGTGCCACTC
 CCATCTCCGAAGTGTACGAGAGTGAGAGAGATGAAGACGGCTTCCTGTACATGGTTATGCCTCGCAGGA
 GACATTCGGGACAGCAATGGCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200654 representing NM_026160
 Red=Cloning site Green=Tags(s)
 MPSEKTFKQRRSFEQRVEDVRLIREQHPTKIPVIIERYKGEKQLPVLDKTKFLVPDHVNMSELIKIIRRR
 LQLNANQAFFLLVNGHSMVSVSTPISEVYESERDEDEGFLVMYASQETFGTAMAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_026160

ORF Size: 375 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.

RefSeq: [NM_026160.5](#)

RefSeq Size: 1711 bp

RefSeq ORF: 378 bp

Locus ID: 67443

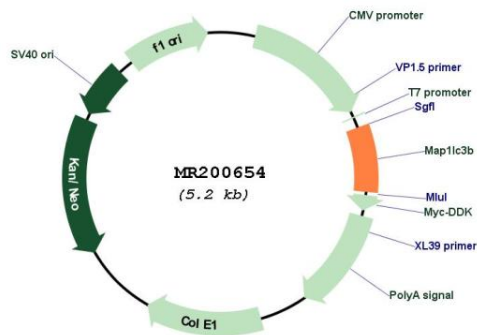
UniProt ID: [Q9CQV6](#)

Cytogenetics: 8 E1

MW: 15.1 kDa

Gene Summary: Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (autophagosomes). Plays a role in mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation. Promotes primary ciliogenesis by removing OFD1 from centriolar satellites via the autophagic pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200654