

Product datasheet for **RG207356**

LC3B (MAP1LC3B) (NM_022818) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LC3B (MAP1LC3B) (NM_022818) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LC3B
Synonyms: ATG8F; LC3B; MAP1A/1BLC3; MAP1LC3B-a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207356 representing NM_022818
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGTCGGAGAAGACCTTCAAGCAGCGCCGCACCTTCGAACAAAGAGTAGAAGATGTCCGACTTATTC
 GAGAGCAGCATCCAACAAAATCCCGGTGATAATAGAACGATACAAGGGTGAGAAGCAGCTTCTGTTCT
 GGATAAAACAAAGTTCCTTGTACCTGACCATGTCAACATGAGTGAGCTCATCAAGATAATTAGAAGCGC
 TTACAGCTCAATGCTAATCAGGCCTTCTCCTGTTGGTGAACGGACACAGCATGGTCAGCGTCTCCACAC
 CAATCTCAGAGGTGATGAGAGTGAGAAAGATGAAGATGGATTCCTGTACATGGTCTATGCCTCCAGGA
 GACGTTCCGGATGAAATTGTCAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207356 representing NM_022818
 Red=Cloning site Green=Tags(s)
 MPSEKTFKQRRTFEQRVEDVRLIREQHPTKIPVIERYKGEKQLPVLDKTKFLVPDHVNMSELIKIIRRR
 LQLNANQAFFLLVNGHSMVSVSTPISEVYESEKDEDGFLYMYVASQETFGMKLSV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_022818

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.

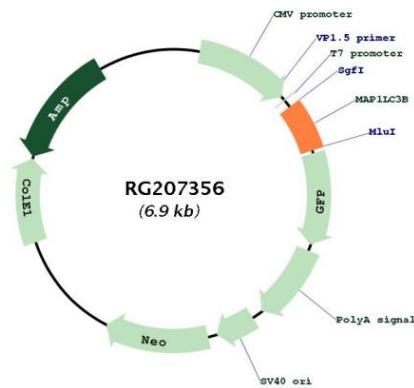
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_022818.5](#)

RefSeq Size: 2270 bp

RefSeq ORF:	378 bp
Locus ID:	81631
UniProt ID:	<u>Q9GZQ8</u>
Cytogenetics:	16q24.2
Domains:	MAP1_LC3
Gene Summary:	The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation of cytoplasmic component. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207356