

## 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**CGGATCGCC**

ATGCCGTCGGAGAAGACCTTCAAGCAGCGCCGCACCTTCGAACAAAGAGTAGAAGATGTCCGACTTATTC  
GAGAGCAGCATCCAACCAAAATCCCGGTGATAATAGAACGATACAAGGGTGAGAAGCAGCTTCTGTTCT  
GGATAAAACAAAGTTCCTTGTACCTGACCATGTCAACATGAGTGAGCTCATCAAGATAATTAGAAGGCGC  
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.

**RefSeq:** [NM\\_022818.5](#)

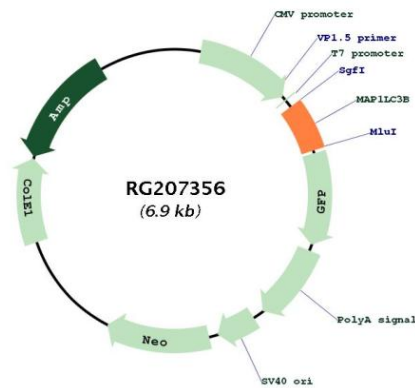
**RefSeq Size:** 2270 bp

**RefSeq ORF:** 378 bp

**Locus ID:** 81631  
**UniProt ID:** [Q9GZQ8](#)  
**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