

## Product datasheet for **SC322139**

### LC3B (MAP1LC3B) (NM\_022818) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LC3B (MAP1LC3B) (NM_022818) Human Untagged Clone
Tag:	Tag Free
Symbol:	LC3B
Synonyms:	ATG8F; LC3B; MAP1A/1BLC3; MAP1LC3B-a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene sequence for SC322139  
 ACGGGCGAGCGCGACCCCTGCCTCCCGGAGACGGCGGGCCTGCCCTGCGCGCCTCAGCC  
 CCGGGTGCCGGCGTCTCGGGCAGCACCACCAAGTCTCTCTGGAGGGGAAAGGATGGTTCGG  
 ATTTGCCCATGTCCCTTCTCTGACCCCTCCCTCAAGAGTGCCCGGGACACCCCGCCT  
 GTGGCTCAGCCTCCCCGCCCGCGCTGCCATCTCTCAGGGCCGGGACAGAGGCTCCCG  
 AGCGCCACAGACCCGGGGTGGGCCAGCCACAACCGTCACCTCAGGGGCCTCAGGCG  
 CCCATCGCGCACGCGCACACACCTGCTCCGCCCCACGCTGCGTGCCGCTGCTGGTTCC  
 GCCACGCCGTATGGCGCGGCCCGGCCGGCTCTGGCCCCGCCCTCGGTGACGCGTC  
 GCGAGTCACTGACCAGGCTGCGGGCTGAGGAGATACAAGGGAAGTGGCTATCGCCAGAG  
 TCGGATTCGCGCGCAGCAGCCGCCGCCCGGGAGCCGCCGGGACCCTCGCGTCGTCG  
 CCGCGCCGCCAGATCCCCGACCATGCCGTGCGAGAAGACCTTCAAGCAGCGCCG  
 CACCTTCAACAAAGAGTAGAAGATGTCGACTTATTCGAGAGCAGCATCAACCAAAAT  
 CCCGGTGATAATAGAACGATACAAGGGTGAAGAAGCAGCTTCTGTCTGGATAAAACAAA  
 GTTCTTGTACCTGACCATGTCAACATGAGTGAGCTCATCAAGATAATTAGAAGGCGCTT  
 ACAGCTCAATGCTAATCAGGCCTTCTTCTGTTGGTGAACGGACACAGCATGGTCAAGCT  
 CTCCACACCAATCTCAGAGGTGTATGAGAGTGAGAAAGATGAAGATGGATTCTGTACAT  
 GGTCTATGCCTCCAGGAGACGTTCCGGATGAAATTGTCAGTGTAAAACAGAAAAAATG  
 CATCTCTTAGAATTGTTAAACCCCTTACCAAGGAAAAAAGGGGTGTACCAACTGA  
 GATCGATCAGTTCATCAATCACAGATCATGAAACAGTAGTGTCCACCTAGGAGTGT  
 AGGAAGTTGTGTTGTGTTTCAAGCAGAAAACTGAGCTCCAAGTGAACACATTCAGCTT  
 TGGAACTATATTTAATGTAGGCTAGCTTGTGTTTCAAATTTTAAAGTTTAAAAATA  
 AAATACTTTGCATTCTAAGTTGCCAATAAAATAGACCTTCAAGTATTTTTAATGCTCTTT  
 TCTCACTAATAGAACTTGTAAATCCAGCAGTAATTTAAAGGCTTTCAGAGAGACCTGA  
 GTCTTCTTTCAGTTTACAGAACCAGCGCCTTTTTGGGTAGAAGTTTTCTACTCAGCT  
 AGAGAGATCTCCCTAAGAGGATCTTTAGGCCTGAGTTGTGAAGCGCAACCCCGCAAAAC  
 GCATTTGCCATCACAGTTGGCACAACGCAGGGTAAACGGGCTGTGTGAGAAAACGGCCC  
 TGACTGTAACCTGCTGAAGGTCCTGACTCCTAAGAGAACCACACCCAAAGTCTCACTC  
 TTGCAGGGGTAGACATTTCTGGTTTGGTTTGTCTAGATAGTTACACACATAAAGACA  
 CCACTCAAAGGAACTTGAATAATTTATAATTTTATGATCGAGTTTCTTAAAGACCCTGG  
 AGAAAGAGTGGCATTCTTCTGTTTTCAGGTTTTGTCTGAGTTCAAAGTGTGCTGTGTT  
 GTTACGGAAAGCAGCAGTGTACCAGTGTCACTCTGGAGTACAGCGGGAGAAACACAAAAT  
 AGTATAACTGAAAACATTAACATTCAGACACACTCCCTTCTGCCTTCCGGCTTAAAGCTG  
 TGGATGATCCACGTTTTTGTGTTTTTAATGTTAAATGTGTAACCTCAGTATTACTGAAAAG  
 GTACCCACATTTTGAATAGTAGTTATCACTCTTAGGTCAGACAGCCATCAGAATTTCTCC  
 ACACCAAGTGCATGTCAGTTGTGGAGAAAAATAGCAAAAAGAGCCGTACGCTCTTTACA  
 GATACTAATGTCAAGAGTTAAACCTCCTCAGGTTCAACCTGTGATAAAAGACTAGTGCTT  
 CCCAGTACTTGCATGGGGTTCACATTTATAGTTTTCTTGGGAGTATCACAGGAAAATCA  
 CAATTACACCACTTTAGACCCATGTGTAGCAGGTCACAACCTTACCCTTGTGTGTTTGA  
 TGTGTATGAAAATACCTGTATACGTTAGTGAAAGCTGTTTACTGTAAACGGGAAAACAGAG  
 TTCTTTGCATCTGGGCCCTCTACTGATTGTTAAAGGAGTTCCTGTCACCTGCTCCCCCA  
 CCCCCGATGCGTCTGTCCACTTGGCTAACTTTTAAATATGTGATTTTTTACATTATGAT  
 ATTCTTAACTGGACTGTCTCGTTTAGACTGTATACATCATATCTGACATTATTGAACTA  
 CCGTGTGATCAGTAAGATTCTGTAAAGAAATACTGCTTTTTAAGAAAAAAAATAACATGC  
 TGAGGGGTGACCTATATCCCATGTGAGTGGTCACTTTATTTATAGGATCTTTAAACATT  
 TTTAATGAACTAAGTTGAATAAAGGCACAATTAATAACTGTCATCAAAAAAAAAAAAAAA  
 A

**Restriction Sites:** Please inquire

**ACCN:** NM\_022818

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_022818.3](#), [NP\\_073729.1](#)

**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]