

Product datasheet for **SC108102**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108102 sequence for NM_022818 edited (data generated by NextGen Sequencing) ATGCCGTCGGAGAAGACCTTCAAGCAGCGGCGCACCTTCAACAAAGAGTAGAAGATGTC CGACTTATTCGAGAGCAGCATCCAACCAAATCCCGGTGATAATAGAACGATACAAGGGT GAGAAGCAGCTTCTGTTCTGGATAAAACAAAGTTCCTTGACCTGACCATGTCAACATG AGTGAGCTCATCAAGATAATTAGAAGGCGCTTACAGCTCAATGCTAATCAGGCCTTCTTC CTGTTGGTGAACGGACACAGCATGGTCAGCGTCTCCACACCAATCTCAGAGGTGTATGAG AGTGAGAAAGATGAAGATGGATTCTGTACATGGTCTGTGCTCCAGGAGACGTTCCGG ATGAAATTGTCAGTGTA Clone variation with respect to NM_022818.4 30 c=>g;338 a=>g



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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_022818 unedited
CAGAAATTTTGTAAACGACTCACTATAGGGGCGGCCGCGATTTCGGCACGAGGCAAGGCTC
GCAGCCACCTCTCGGGAGTGCAGGGCCAGATCCTGTGCCAGCGGCCTTACACGGCCACAG
TCGGATTTCGCTGCCGACAGCCGCCACCCCAAGGAGCCGCCGGGACCCTCGCGTCGTCG
CCGCCGCCGCCAGATCCCCACACCATGCCGTCCGAGAAGACCTTCAAGCAGCGGCGCAC
CTTCGAACAAAGAGTAGAAGATGTCGACTTATTCGAGAGCAGCATCCAACCAAAATCCC
GGTGAATAATAGAACGATACAAGGGTGAGAAGCAGCTTCCTGTTCTGGATAAAACAAGTT
CCTTGACCTGACCATGTCAACATGAGTGAGCTCATCAAGATAATTAGAAGGCGCTTACA
GCTCAATGCTAATCAGGCCTTCTCCTGTTGGTGAACGGACACAGCATGGTCAGCGTCTC
CACACCAATCTCAGAGGTGTATGAGAGTGAGAAAGATGAAGATGGATTCTGTACATGGT
CTGTGCCCTCCAGGAGACGTTCCGGATGAAATTGTCAAGTGTAAAACCAGAAAAAATGCAT
CTCTTCTAGAATTTTTTAAACCCTTACCAAGGAAAAAAAAGGGATGTTACCAACTGAGA
TCGATCAGTTCATCTAATCACAGATCATCAAACAGTAGTGTCCACCTAGGAGTGTAG
GAAAAGTGTGTTGTGTTTCAAGCAGAAAAACTGAGCTCNCAGTGAGCACATTCAGCTTTG
GAAACTATATTATTTAATGTAGGCTAGCTTGGTTTCAAAATTTAAAGTTTAAAAATAAT
ACTTTGCATTCTANAAAAAAAACCTCGACTCTAGATGGCGGCCGCGTCATAGCTGG
TTCTGGACAGATCCGGGTGGCATCCTGTGACCCTCCAGTGCTCTCTGGCCTGGAGTGCC
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_022818 unedited
CTATGGCCCGCGCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGAATGCAAAGT
ATTTTATTTTTAACTTTTAAAAATTTGAAAACAAGCTAGCCTACATTAATAATATAGTT
TCCAAAGCTGAATGTGCTCACTTGGAGCTCAGTTTTTCTGCTTGAAACACAAACACAAC
TCCTAACACTCCTAGGTGGGAACACTACTGTTTGTATGATCTGTGATTAGATGAACTGATC
GATCTCAGTTGGTAACATCCCTTTTTTTTTTCTTGGTAAGGGTTTAAAAAATTCTAGAAG
AGATGCATTTTTTCTGGTTTTACTGACAATTCATCCCGAACGTCCTCTGGGAGGCAC
AGACCATGTACAGGAATCCATCTTCATCTTTCTCACTCTCATAACCTCTGAGATTGGTG
TGGAGACGCTGACCATGTGTGTCGGTTCACCAACAGGAAGAAGGCTGATTAGCATTGA
GCTGTAAGCGCCTTCTAATTATCTTGATGAGCTCACTCATGTTGACATGGTCAGGTACAA
GGAACCTTTGTTTTATCCAGAACAGGAAGCTGCTTCTCACCTTGTATCGTTCTATTATCA
CCGGGATTTTGGTTGGATGCTGCTCTCGAATAAGTCGGACATCTTCTACTCTTTGTTTCA
AGGTGCGCCGCTGCTTGAAGGTCTTCTCCGACGGCATGGTGTGGGAGATCTGGCGGGCGG
CGGCGACGACGCGAGGGTCCCGCGGCTCCTGNAGGTGGCGGCTGCTGCGGCAGCGAATC
CGACTGTGGCCGTGTAAGGCCGCTGCACAGGATCTGGCCCTGCACTCCGAGAGTGCTGC
GAGCTTGCCCTCGTGCAATTCGGCGGCGCCTATAAGTGAGTCGTATACAAATNCTTGACG
GTCACTAACGAGCCTGCTGAATAGACTNCCACGTACCGCTACGCCATTGCGAAGGGGGCG
GGGTATACACTT
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Restriction Sites:

NotI-NotI

ACCN:

NM_022818

Insert Size:

930 bp

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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:	<p>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]</p>