

## Product datasheet for **RG220602**

### LC3C (MAP1LC3C) (NM\_001004343) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LC3C (MAP1LC3C) (NM\_001004343) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** LC3C  
**Synonyms:** ATG8J; LC3C  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG220602 representing NM\_001004343  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGCCTCCACAGAAATCCCAAGCGTCAGACCCTTCAAGCAGAGGAAAAGCTTGCCAATCAGACAAG  
AGGAAGTTGCTGGAATCCGGGCAAAGTTCCCAACAAAATCCCGTGGTAGTGGAGCGCTACCCAGGGA  
GACGTTCTGCCCGCTGGACAAAACCAAGTTCCTGGTCCCGCAGGAGCTGACCATGACCCAGTTCCTC  
AGCATCATCCGGAGCCGATGGTCTGAGAGCCACGGAAGCCTTTACTTGCTGGTGAACAACAAGAGCC  
TGGTCAGCATGAGCGCAACCATGGCAGAGATCTACAGAGACTACAAGGATGAGGATGGCTTCGTGTACAT  
GACCTACGCTCCAGGAGACATTTGGCTGCCTGGAGTCAGCAGCCCCAGGGATGGGAGCAGCCTTGAG  
GACAGACCCTGCAATCCTCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG220602 representing NM\_001004343  
Red=Cloning site Green=Tags(s)  
MPPQKIPSVRPFKQRKSLAIRQEEVAGIRAKFPNKIPVVVERYPRETFLPPLDKTKFLVPQELTMTQFL  
SIIRSRMLRATEAFYLLVNNKSLVSMATMAEIIYRDYKDEDGFVYMTYASQETFGCLESAAPRDGSSLE  
DRPCNPL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001004343

**ORF Size:** 441 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\\_001004343.3](#)

**RefSeq Size:** 1181 bp

**RefSeq ORF:** 444 bp

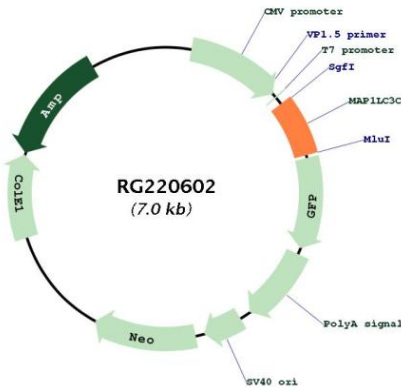
**Locus ID:** 440738

**UniProt ID:** [Q9BXW4](#)

Cytogenetics: 1q43

Gene Summary: Autophagy is a highly regulated bulk degradation process that plays an important role in cellular maintenance and development. MAP1LC3C is an ortholog of the yeast autophagosome protein Atg8 (He et al., 2003 [PubMed 12740394]).[supplied by OMIM, Nov 2010]

**Product images:**



Circular map for RG220602