

## Product datasheet for **RC224068**

### LTB (NM\_009588) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LTB (NM\_009588) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** LTB  
**Synonyms:** p33; TNFC; TNFSF3; TNLG1C  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC224068 representing NM\_009588  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGCACTGGGGCTGGAGGGCAGGGGTGGGAGGCTCCAGGGGAGGGTTCCCTCCTGCTAGCTGTGG  
CAGGAGCCACTTCTCTGGTGACCTTGTGCTGGCGGTGCCTACTGTCCTGGCTGTGCTGGCCTTAGT  
GCCCCAGGATCAGGGAGGACTGGGTTTCAGAAGCTGCCAGAGGAGGAGCCAGAAACAGATCTCAGCCCCG  
GGCTCCAGCTGCCACCTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC224068 representing NM\_009588  
Red=Cloning site Green=Tags(s)  
MGALGLEGRGRLQGRSLLLAVAGATSLVTLVAVPITVLAVALVPQDQGLGFRSCQRRSQKQISAP  
GSQLPTS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8102\\_f01.zip](https://cdn.origene.com/chromatograms/mk8102_f01.zip)

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_009588

**ORF Size:** 231 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\\_009588.1](#), [NP\\_033666.1](#)

**RefSeq Size:** 848 bp

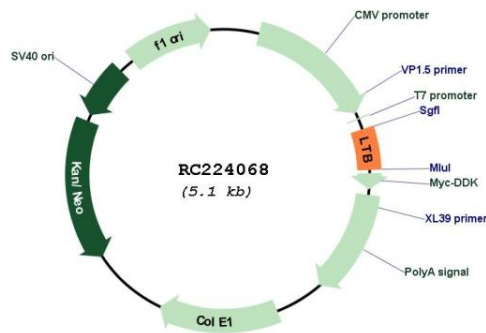
**RefSeq ORF:** 234 bp

**Locus ID:** 4050

**UniProt ID:** [Q06643](#)  
**Cytogenetics:** 6p21.33  
**Protein Families:** Druggable Genome, Transmembrane  
**Protein Pathways:** Cytokine-cytokine receptor interaction  
**MW:** 7.8 kDa

**Gene Summary:** Lymphotoxin beta is a type II membrane protein of the TNF family. It anchors lymphotoxin-alpha to the cell surface through heterotrimer formation. The predominant form on the lymphocyte surface is the lymphotoxin-alpha 1/beta 2 complex (e.g. 1 molecule alpha/2 molecules beta) and this complex is the primary ligand for the lymphotoxin-beta receptor. The minor complex is lymphotoxin-alpha 2/beta 1. LTB is an inducer of the inflammatory response system and involved in normal development of lymphoid tissue. Lymphotoxin-beta isoform b is unable to complex with lymphotoxin-alpha suggesting a function for lymphotoxin-beta which is independent of lymphotoxin-alpha. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC224068