

Product datasheet for **RG210134**

LTB (NM_002341) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LTB (NM_002341) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LTB
Synonyms:	p33; TNFC; TNFSF3; TNLG1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210134 representing NM_002341 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCACTGGGGCTGGAGGGCAGGGGTGGGAGGCTCCAGGGGAGGGTTCCCTCCTGCTAGCTGTGG
CAGGAGCCACTTCTCTGGTGACCTTGTGCTGGCGGTGCCTATCACTGTCCTGGCTGTGCTGGCCTTAGT
GCCCCAGGATCAGGGAGGACTGGTAACGGAGACGGCCGACCCCGGGGCACAGGCCAGCAAGGACTGGG
TTTCAGAAGCTGCCAGAGGAGGAGCCAGAAACAGATCTCAGCCCCGGGCTCCAGCTGCCACCTCATAG
GCGCTCCGCTGAAGGGCAGGGGCTAGGCTGGGAGACGACGAAGGAACAGGCGTTTCTGACGAGCGGGAC
GCAGTTCTCGGACGCCGAGGGGCTGGCGCTCCCGCAGGACGGCCTCTATTACCTCTACTGTCTCGTCGGC
TACCGGGCCGGGCGCCCCCTGGCGGCGGGGACCCCCAGGGCCGCTCGGTACGCTGCGCAGCTCTCTGT
ACCGGGCGGGGGCGCCTACGGCCGGGCACTCCCGAGCTGCTGCTCGAGGGCGCCGAGACGGTGACTCC
AGTGCTGGACCCGGCCAGGAGACAAGGGTACGGGCCTCTCTGGTACACGAGCGTGGGGTTCCGGCGCCTG
GTGCAGCTCCGGAGGGGCGAGAGGGTGTACGTCAACATCAGTCACCCGATATGGTGGACTTCGCGAGAG
GGAAGACCTTCTTTGGGGCCGTGATGGTGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210134 representing NM_002341
 Red=Cloning site Green=Tags(s)

MGALGLEGRGGRLQGRGSLLLAVAGATSLVTLLLAVPITVLAVLALVPQDQGGGLVTETADPGAQAQQGLG
 FQKLPEEEPETDLSPLPAAHLIGAPLKGQGLGWETTKEQAF L TSGTQFSDAEG LALPQDGLYYLYCLVG
 YRGRAPPGGGDPQGRSVTLRSSLYRAGGAYGPGTPELLLEGAETVTPVLDPARRQGYGPLWYTSVGFGG
 VQLRRGERVYVNI SHPDMVDFARGKTFFGAVMVG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002341

ORF Size: 732 bp

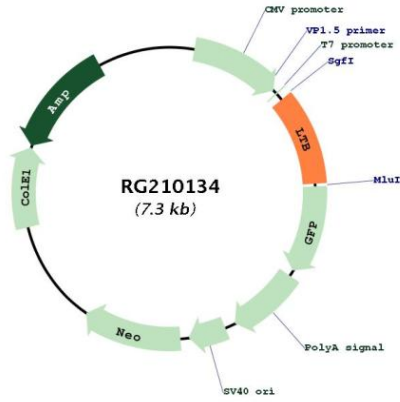
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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 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:	<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:	<u>NM_002341.2</u>
RefSeq Size:	894 bp
RefSeq ORF:	735 bp
Locus ID:	4050
UniProt ID:	<u>Q06643</u>
Cytogenetics:	6p21.33
Domains:	TNF
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction
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 RG210134