

Product datasheet for **SC125270**

LTB (NM_002341) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LTB (NM_002341) Human Untagged Clone
Tag:	Tag Free
Symbol:	LTB
Synonyms:	p33; TNFC; TNFSF3; TNLG1C
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125270 sequence for NM_002341 edited (data generated by NextGen Sequencing)

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ATGGGGGCACTGGGGCTGGAGGGCAGGGGTGGGAGGCTCCAGGGGAGGGTTCCCTCCTG
CTAGCTGTGGCAGGAGCCACTTCTCTGGTGACCTTGTTGCTGGCGGTGCCTATCACTGTC
CTGGCTGTGCTGGCCTTAGTGCCCCAGGATCAGGGAGGACTGGTAACGGAGACGGCCGAC
CCCGGGGCACAGGCCAGCAAGGACTGGGGTTTCAGAAGCTGCCAGAGGAGGAGCCAGAA
ACAGATCTCAGCCCCGGGCTCCCAGCTGCCACCTCATAGGCGCTCCGCTGAAGGGGCGAG
GGGCTAGGCTGGGAGACGACGAAGGAACAGGCGTTTCTGACGAGCGGGACGCAGTTCTCG
GACCGCGAGGGGCTGGCGCTCCCGCAGGACGGCCTCTATTACCTCTACTGTCTCGTCGGC
TACCGGGGCCGGGCGCCCCTGGCGGGGGACCCCAAGGGCCGCTCGGTCACGCTGCCG
AGCTCTGTACCGGGCGGGGGCGCCTACGGGCCGGGCACTCCCGAGCTGCTGCTCGAG
GGCGCCGAGACGGTGACTCCAGTCTGGACCCGGCCAGGAGACAAGGGTACGGGCCTCTC
TGGTACACGAGCGTGGGGTTCGGCGGCCTGGTGCAGCTCCGGAGGGGCGAGAGGGTGTAC
GTCAACATCAGTCACCCGATATGGTGGACTTCGCGAGAGGGAAGACCTTCTTTGGGGCC
GTGATGGTGGGGTGA
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Clone variation with respect to NM_002341.1



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002341 unedited TCACCAATCGTAATACGCGCGACTATATGGCGGCCGGAATTCGGCACCAGAAAGTCCCA GCCAGGTGTGCAGGTCTACAGGGAGGGGTGGGCCCGTCCCTGAGGTATGAAAGCCCCCT GCTCTGGCTCTGGTTCACTCTCAATGGGGGCACTGGGGCTGGAGGGCAGGGGTGGGAGGC TCCAGGGGAGGGGTTCCCTCCTGCTAGCTGTGGCAGGAGCCACTTCTCTGGTGACCTTGT TGCTGGCGGTGCCTATCACTGTCTGGCTGTGCTGGCCTTAGTGCCCCAGGATCAGGGAG GACTGGTAACGGAGACGGCCGACCCCGGGGCACAGGCCAGCAAGGACTGGGGTTTCAGA AGCTGCCAGAGGAGGAGCCAGAAACAGATCTCAGCCCCGGCTCCAGCTGCCACCTCA TAGGCGCTCCGCTGAAGGGGCAGGGGCTAGGCTGGGAGACGACGAAGAAACAGGCGTTTC TGACGAGCGGGACGCAGTTCTCGGACGCCGAGGGGCTGGCGCTCCCGCAGGACGGCCTCT ATTACCTACTGTCTCGTCCGCTACCGGGGCCGGCGCCCCCTGGCGCGGGGACCCCC AGGGCCGCTCGGTACGCTGCGCAGCTCTGTACCGGGCGGGGGCGCCTACGGGCCGG GCACTCCCAGCTGCTGCTCGAGGGCGCCGAGACCGTGACTCCAGTGCTGGGACCCGCCA GGAGACAAGGGTACGGGCTCTGTACACGAGCGTNGGTTCCGGCCCTGGTGCATN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002341 unedited GTTGCAACTTCCCGGCCAGGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGAT CTGTTCAAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTT TTTTATCGGCAGCACTGAAGCTTTCCATTCTTTATTTTCATCAGTTCAAATCAATTTT CAAACAGTCTCTACATTTTTCCACTGCCATGGGGTCTGGGCGTCCGGGCCCCCAATA TTCACGCACTCGACCACGCACTCATATCCCTCACCCACCATCACGGCCCCAAAGAAG GTCTTCCCTCTCGGAAGTCCACCATATCGGGGTACTGATGTTGACGTACCCCTCTCG CCCCTCCGGAGCTGCACCAGGCCCGCAACCCACGCTCGTGTACCAGAGAGGCCCGTAC CCTGTCTCCTGGCCGGTCCAGCACTGGAGTACCGTCTCGGCCCTCGAGCAGCAGC TCGGGAGTGCCCGGCCGTAGGGCCCCCGCCCGGTACAGAGAGCTGCGCAGCGTGACC GAGCGNGCCCCTGGGGTCCCCGCCGAGGGGGCGCCCGCCCGGTAGCCGACNAAGCA GTAGAGGTAATAGAGGCCGCTGCGGNNAGCGCCAGCCCTCGCGTCCGANGAACTGCG TCCCGCTCGTCAGAAACGCTGTCCCTCGTCTCCAGCCTAGCCCTGCCCTTCAG CGGACGGCCTTATAGTTGGCAACTTGGACCCCGGCCCTAGTAT</p>
Restriction Sites:	Please inquire
ACCN:	NM_002341
Insert Size:	900 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_002341.1 , NP_002332.1
RefSeq Size:	894 bp
RefSeq ORF:	735 bp
Locus ID:	4050
UniProt ID:	Q06643
Cytogenetics:	6p21.33
Domains:	TNF
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction
Gene Summary:	<p>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]</p> <p>Transcript Variant: This splice variant (1) represents the longer transcript, encodes the longer isoform (a), and can form the heterotrimeric complex with lymphotoxin-alpha.</p>