

Product datasheet for **SC309512**

LTB (NM_009588) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LTB (NM_009588) Human Untagged Clone
Tag:	Tag Free
Symbol:	LTB
Synonyms:	p33; TNFC; TNFSF3; TNLG1C
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_009588, the custom clone sequence may differ by one or more nucleotides ATGGGGGCACTGGGGCTGGAGGGCAGGGGTGGGAGGCTCCAGGGGAGGGTTCCCTCCTG CTAGCTGTGGCAGGAGCCACTTCTCTGGTGACCTTGTGCTGGCGGTGCCTATCACTGTC CTGGCTGTGCTGGCCTTAGTGCCCCAGGATCAGGGAGGACTGGGTTTCAGAAGCTGCCAG AGGAGGAGCCAGAAACAGATCTCAGCCCCGGGCTCCCAGCTGCCACCTCATAG
Restriction Sites:	Please inquire
ACCN:	NM_009588
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.



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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
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 (2) lacks an exon in the coding region, compared to variant 1. The encoded protein (isoform b) has a premature stop codon and lacks the majority of the extracellular domain, compared to isoform a. This loss impairs its ability to complex with lymphotoxin-alpha.</p>