

## Product datasheet for SC119796

### LTBP1 (NM\_000627) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LTBP1 (NM_000627) Human Untagged Clone
Tag:	Tag Free
Symbol:	LTBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000627, the custom clone sequence may differ by one or more nucleotides

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ATGGATACTAAGCTGATGTGTTTGTGTTCTTTTTCTCCCTGCCTCCGCTCCTAGTGAGTAACCACACTG
GCCGCATCAAGGTGGTCTTTACTCCGAGCATCTGTAAGTGACCTGCACCAAGGGCAGCTGTGAGAACAG
CTGTGAGAAGGGGAACACCACACTCTCATTAGTGAGAATGGTCATGCTGCCGACACCCTGACGGCCAGC
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AGTGCCCTCCAAATTTACAGGAAAACCTTTGTGAGATCCAGTCCATGGTCCAGCGTGCCTAAACTTTA
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AGAGGAAATGTGTGGATATTGATGAGTGTACTCAGGTCCAACACCTCTGCTCCCAGGGCCGCTGTGAAAA
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GAAGAACTGATGTCTACCAAGATTTGTGCTGGGAACATCTGAGTGTGAATACGTGTGTAGCCGGCCTC
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AGTGCATTAACACCGATGGTTCCTACAAGTGTGTTGTGCTGCCAGGCTACGTGCCTTCTGACAAGCCAAA
CTACTGCACTCCGTTGAATACCGCCTTGAATTTAGAGAAAAGACAGTGACCTGGAGTGA

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**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2922\\_b11.zip](https://cdn.origene.com/chromatograms/ja2922_b11.zip)  
**Restriction Sites:** NotI-NotI  
**ACCN:** NM\_000627  
**Insert Size:** 5000 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](mailto: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](#)

**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\\_000627.2](#), [NP\\_000618.2](#)

**RefSeq Size:** 5308 bp

**RefSeq ORF:** 4191 bp

**Locus ID:** 4052

**UniProt ID:** [Q14766](#)

**Cytogenetics:** 2p22.3

**Domains:** EGF\_CA, TB, EGF, EGF

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** TGF-beta signaling pathway

**Gene Summary:**

The protein encoded by this gene belongs to the family of latent TGF-beta binding proteins (LTBPs). The secretion and activation of TGF-betas is regulated by their association with latency-associated proteins and with latent TGF-beta binding proteins. The product of this gene targets latent complexes of transforming growth factor beta to the extracellular matrix, where the latent cytokine is subsequently activated by several different mechanisms. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, compared to variant 1. The resulting isoform (LTBP-1S) contains a shorter and distinct N-terminus, compared to isoform LTBP-1L.