

Product datasheet for MC224864

Ltbp1 (NM_019919) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ltbp1 (NM_019919) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ltbp1
Synonyms:	9430031G15Rik; 9830146M04; b2b1000Clo; Ltbp-1; Ltbp1L; TGF-beta1-BP-1; Tgfb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224864 representing NM_019919 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGGAGCCTGGCTCAGGTGGGTCTCCTGCTCTGGCAGGGCTGCTAGCGTGGTCTGCGCACGGCC
GGGTGCGGAGGATCACGTACGTGGTGCGCCGGGCGGGACTGCCGGCCGGAGCCTTGCTCTGGCTGG
GCCCGCGGACCTTCAACGTGCGACTGGACGCCAGGTACAGCCGGAGCTCAACAGCCGCTCCAGCCG
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TCCGATCTCCGCTGCCACCCGAGCCCGCGCTCCGGGGGGGCCAGCCGCGAGCTCCACTCTAAGCGGG
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GCTCAGAGCGCCGGGGCTCCAGACTGCAGGTTACGAGAAGCAGCAGCTGCAGGGGATCAACGTCTGTG
GAGGGCAGTGCTGCCACGGTGGAGTAACTCCTGGCTCCCAGAGGTGCACCAACCAGCTGTGTTCC
GCCATGCCAGAACGGAGGGATGTGTCTACGGCTCAGCTCTGTGTGTGCAAGCCAGGGTCAAAGGGCAA
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AGTGAAATTTCCCCCAACATAGTCAATATCCATGTGAAACATCCTCCCGAGGCTTCTGTCCAGATACAC
CAGGTTTCCAGGATTGACAGCCAGGAGCCAGAAGGTGAAGGAAGCCAAACCAGGCCAGTCCCAAGTCT



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CTTACCAAGGACTTCCGGTCCAGAAGACCCAGACAGTCCATTCTACGTA CTCCACCAGCAGCTTATTCC
 CCATGTGTATCCCGTGGCTGCTAAGACACAACCTTGGCCGATGCTTCCAGGAAACCATTGGATCACAGTGT
 GGCAAAGCGCTCCCTGGCCTTTCCAAGCAAGAGGACTGCTGTGGGACAGTGGGGACGTCCTGGGGCTTTA
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 CTACAGGCTGAGGAGTGTGGCATCCTCAATGGTTGTGAAAACGGCCGCTGTGTGAGAGTCCAGGAAGGAT
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 CAGCGAGCTGAATAATCGGATGTCTCTCTGCAAGAACGCCAAGTGCATTAACACAGAAGGCTCTACAAA
 TGCTTGTGTCTGCCAGGCTACATACCATCCGACAAGCCCAACTACTGTACACCCCTGAACAGCGCTTTGA
 ATTTAGACAAAGAAAGTGACCTGGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_019919

Insert Size: 5139 bp

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).

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_019919.3](#), [NP_064303.2](#)

RefSeq Size: 7910 bp

RefSeq ORF: 5139 bp

Locus ID: 268977

UniProt ID: [Q8CG19](#)

Cytogenetics: 17 E2

Gene Summary: Key regulator of transforming growth factor beta (TGFB1, TGFB2 and TGFB3) that controls TGF-beta activation by maintaining it in a latent state during storage in extracellular space. Associates specifically via disulfide bonds with the Latency-associated peptide (LAP), which is the regulatory chain of TGF-beta, and regulates integrin-dependent activation of TGF-beta. Outcompeted by LRRC32/GARP for binding to LAP regulatory chain of TGF-beta.
[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) is the longest transcript and it encodes the longest isoform (LTBP-1L). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.