

Product datasheet for MC224375

Ltbp1 (NM_206958) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ltbp1 (NM_206958) 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:	>MC224375 representing NM_206958 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATACTAAGCTGATGTGTTTGTGTTCTTTCTCTGTCTGCCTCTACTCCTAGTGAGTAACCACACTG
GTCGCATCAAGGTGGTCTTTACTCCGAGCATCTGTAAGTGACCTGCACCAAGGGCAACTGTCAGAACAG
CTGCCAGAAGGGGAATACCACCCTCTCATTAGTGAGAACGGCCATGCAGCCGACACCCTGCAGCCACG
AACTTCGGAGTGGTTATTTGCCATCTCCGTGTATGAATGGTGGCCAGTGCAATTAAGGGACAAATGTC
AGTGCCCTCCAAATTTACAGGAAAGCTTTGCCAGATCCCTGTCCCTGGTCCAGTATGCCAAAACCTCTA
CCAGCAGCCCCAGCAGCAGGGCAAGGCATTGGGGAGTCACGTCATCCATTCCACACATACCTTGCCTCTA
ACCATGACTAGCCAGCAAGGGGTCAAAGTGAATTTCCCCCAACATAGTCAATATCCATGTGAAACATC
CTCCCAGGCTTCTGTCCAGATACACCAGGTTCCAGGATTGACAGCCCAGGAGGCCAGAAGGTGAAGGA
AGCCCAACCAGGCCAGTCCCAAGTCTTTACCAAGGACTTCCGGTCCAGAAGACCAGACAGTCCATTCT
ACGTACTCCCACCAGCAGCTTATCCCCATGTGTATCCCGTGGCTGCTAAGACACAACCTTTGGCCGATGCT
TCCAGGAAACCATGGATCACAGTGTGGCAAAGCGCTCCCTGGCCTTTCCAAGCAAGAGGACTGCTGTGG
GACAGTGGGGACGTCCTGGGGCTTTAACAAATGCCAGAAGTGCCCAAGAAACAATCCTATCATGGATAT
ACTCAAATGATGGAATGCCTACAAGGATATAAACGGGTTAACAAACCTTTTGTCAAGATATTAATGAAT
GTCAGCTACAAGGTGTATGCCCTAATGGTGTGTTTGAATACCATGGGCAGCTACAGATGCTCCTGCAA
AATGGGATTCGGGCTGACCCTACCTTTTCAAGTTGTGTTCCGGATCCCCCTGTGATCTCAGAAGAGAAA
GGGCCCTGTTACCGCTTGTGAGTCTGGAAAGGCATTGTATGCACCCTCTCTGTTTCTATCTACCAAGC
AGATCTGCTGTTGTAGTGTGGGCAAGGCCTGGGGCCACATTGTGAGAAATGCCCTCCAGGCACAGC
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CATCAGCATATAGGTAAGAAGCTGTATATGTCAAGCCAAAGAACACTCAACCTGTTGCTAAAAGTACTC
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AGGGGCGGAGCCGAAGTGGTAACAGCACCTCCTGAGAAGGAAATACCTCACTGGATCAAGAGAAAACC
AGACTTGAACCTGGGCAACCCAGCTCTCCCCAGGGGTTCAACTATTCTGCACCCACAGTTTCCAG



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TAGTGGTTGAAAAGACATCCCCTCCTGTGCCTGTGGAAGTAGCTCCTGAAGCTTCCACATCCAGTGCCAG
 CCAAGTGATTGCTCCTACGCAAGTAACAGAAATCAACGAATGACTGTGAACCCGGACATTTGCGGAGCA
 GGACACTGCATCAACCTGCCGGTGCGGTATACCTGCATATGCTACGAGGGCTACAAGTTCAGTGAACAGC
 TGAGGAAATGTGTCGACATTGATGAATGTGCTCAGGTCCGGCACCTCTGCTCCCAGGGTCTGCTGTGAGAA
 CACAGAGGGAAGTTTCTGTGTGCTGCCCGCAGGGTTATGGCCAGTGAGGAGGTTACTAACTGTATA
 GATGTGGATGAGTGCCTGAGGCCTGATATGTGTAGGGATGGCCGCTGCATCAACACCCGTTGGGCTTCC
 GGTGCGAGTACTGTGACAGTGGTACCGGATGTCACGGAGAGGCTACTGTGAGGATATTGATGAGTGTCT
 GAAGCCAAGCACTTGCCCGAGGAACAGTGTGTGAACACCCCGGCTCTTACCAGTGTGTGCCCTGCACA
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 ATGTTTCTGCACCAACCTGGAAGGGTCTACATGTGTTCTGCCACAGGGGCTACAGCCCCACACCAGA
 CCATAGACACTGTCAAGATATTGATGAATGCCAACAAGGGAATCTCTGCATGAATGGGCAGTGCAGAAAT
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 ATATTGATGAATGCGAGCACCATCACCTCTGCTCTCACGGCAGTGCAGGAACACAGAGGGCTCCTTCCA
 GTGTGTGTGCAACCAGGGTTACAGAGCATCTGTACTTGGAGACCCTGTGAGGATATCAATGAATGCTTG
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 ATCTCATGGGGAGTGTCTAAACACACAAGGCTCCTTCCACTGTGTCTGTGAACAGGGGTTCTCCATCTCT
 GCCGATGGCCGTACATGCGAAGATATTGATGAGTGTGTTAACAACACTGTGTGTGACAGTACCGGTTCT
 GTGACAACACAGCCGGCTCTTCCGCTGCCTCTGTTATCAGGGCTTTCAAGCCCCACAGGATGGGCAAGG
 GTGTGTGGATGTGAACGAGTGTGAACCTGCTCAGTGGTGTATGTGGGAAGCCTTCTGTGAAAACCTGGAA
 GGATCCTTCTGTGTGTGTGTCGATGAGAACCAGGAGTACAGCCCCATGACTGGGCAGTGTGCTCTC
 GGGTACGGAAGATTGAGGTGTGGATCGTCAGCCTAGAGAAGAGAAGAAGGAGTGTCTATTATAACCTCAA
 TGATGTAGTCTCTGTGATAATGCTCTGGCCCCAACGTCACCAACAAGAGTGTGCTGTACGTGAGTGT
 GCCGGTGGGGAGACAACCTGTGAGATCTTCCCTTCCCGGCTCCAGGGAAGTGTGAGTTCACGGAATGT
 GCCCTAGAGGAAAGGTTTGGTCCCGGCTGGAGAATCCTTACGACACTGGTGGCGAGAAGTACAAGA
 TGCTGATGAATGCTTGTGTTTGGAGAGGAAATCTGTAAAAATGGTTACTGTTTGAACACTCAACCTGGG
 TATGAATGCTACTGTAAGCAAGGACATACTATGATCCTGTCAAATTACAGTGTCTTGTATGGATGAAT
 GCCAAGACCCTAACAGTTGCATTGACGGCCAGTGTGTGAACACAGAGGGCTCCTACAAGTCTTTTGCAC
 CCACCAATGGTCTGGATGCCTCTGAGAAGAGATGTGTGCAACCACTGAATCAATGAACAAATAGAA
 GAGACCGATGTCTATCAAGATCTGTGCTGGGAGCATCTGAGTGAGGAGTACGTGTGTAGCCGCTCCTCTCG
 TAGGCAAGCAGACGACGTACACAGAATGTGCTGTTTGTACGGGGAGGCTTGGGGCATGCAGTGTGCTCT
 GTGCCCATGAAGGACTCAGATGACTATGCCAGCTGTGCAATATCCCTGTGACTGGGCGTCCGGCGCCA
 TATGGACGGGATGCATTGGTGGACTTCAGTGAACAGTATGGCCAGAAACAGACCCTTACTTTCATCCAGG
 ATCGCTTTCTAAATAGCTTTGAGGAGCTACAGGCTGAGGAGTGTGGCATCCTCAATGGTTGTGAAAACGG
 CCGCTGTGTGAGAGTCCAGGAAGGATACACTTGCATTGCTTTGATGGATATCACCTGGATATGGCCAAG
 ATGACCTGTGTGATGTAATGAATGCAGCGAGCTGAATAATCGGATGTCTCTGTGCAAGAACGCCAAGT
 GCATTAACACAGAAGGCTCCTACAAATGCTTGTGTCTGCCAGGCTACATACCATCCGACAAGCCCAACTA
 CTGTACACCCCTGAACAGCGCTTTGAATTTAGACAAAAGAAAGTACCTGGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_206958

Insert Size:

4185 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:	<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_206958.2 , NP_996841.1
RefSeq Size:	6771 bp
RefSeq ORF:	4185 bp
Locus ID:	268977
UniProt ID:	Q8CG19
Cytogenetics:	17 E2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and has an alternate 5' coding segment, compared to variant 1. The encoded isoform (LTBP-1S) has a shorter and distinct N-terminus when compared to 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.</p>