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Product datasheet for MC224737

Ltbp4 (NM_001113549) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ltbp4 (NM_001113549) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ltbp4
Synonyms:	2310046A13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC224737 representing NM_001113549
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGCGGCGCGCAGCTGCTCTGGGTGTCGCTATTGGTGCTGCTGGCGCAGCTGGGGCCGCAGCCCG
TACTGGGCCGACCCCGAGAGCGTCTTCGCGTGCGCTTCACCCCCGCTGTGTGCGGCCTGCGTTGCATCCA
CGGGCCCACTGGCTCCCGCTGTACCCCGACCTGCGCGCCCCGCAACGCCACCAGCGTGGACAGCGGCGCG
CCCGGCGGGGCGGCCCCGGGGGGACCCGGCTTCCGCGCCTTCCTATGTCCCTTGATCTGTCACAACGGTG
GTGTGTGTGTGAAGCCTGATCGCTGCCTTTGCCCCCCGGACTTCGCTGGCAAATTCTGCCAATTGCATTC
TTCGGGGGCCCGGCCCCCGGCCCCAGCCATGCCGGGCCTTACCCGCTCCGTTTATACAATGCCACTAGCC
AACCACCGCGATGATGAACACGGAGTAGCATCGATGGTGAGCGTGCACGTGGAGCACCCTCAGGAGGCAT
CAGTGGTGGTGCACCAAGTGGAACGTGTGTCGGGCCCCTGGGAGGAGGCGAACCCTGAAGCCCTAGCCAG
GGCTGAAGCGGCGGCACGGGCCGAGGCGGCGGCGCCCTACACAGTGCTGGCACAGAGCGCGCCACGCGAG
GACGGCTACTCAGACGCCTCCGGCTTCGGTTACTGTTTTAGAGAACTGCGCGGAAGCGAATGTGCATCGC
CGCTGCCAGGGCTCCGGACGCAGGAAGTCTGCTGCCGAGGAGAGGGCTTGGCCTGGGGTGTTCATGATTG
TCACCCGTGCGCGGAACACCTGAGGAACTCCAACCAAGTGAGTGGCCCAAATGGACCTTGTCCACCCGGC
TTCGAGAGAGTTAATGGGTCCTGTGTAGATGTGGATGAGTGCGCCACCGGTGGGCGTTGCCAACACGGGG
AGTGTGCCAACACTCGTGGCGGCTACACGTGTGTATGTCCGGACGGTTTCCTCCTGGACTCTTCCCGCAG
CAGCTGCATCTCCCAACACGTGATCTCCGAGGCAAAGGGGCCCTGCTACCGAGTGCTGCATGATGGCGGA
TGCTCGCTGCCCATTCTTCGAAATATCACCAAACAGATCTGCTGCTGTAGCCGTGTGGGCAAGGCGTGGG
GCCGAGGCTGCCAGCTCTGTCCACCTTATGGTTCAGAGGGTTTTCGGGAGATCTGTCCAGCTGGCCCTGG
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TTCAATCAGCCACGTGTTCCACCAGCCACCCCTCGGCCACCTACAGGCTTTCTGCCTACTCGTCGACCTG
AGCCCCGCCCTGACCCTGGGCCACAGCCTGAACCCCGGCCTCGGCCTGAACCCCGGCCTCGGCCTGAATC
CCGACCTCGGCCTGAACCCCGGCCTCGGCCTGAACCCCGGCCTCAGCCTGAATCCCAGCCTAGGCCTGAA
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TCCCGGCCTCGGCCTGAATCCCAGCCTTGGCCTGAATTTCCCCTGCCCAGCATCCCTGCTTGGACCGGTC
CAGAGATTCCTGAATCAGGTCCCTCTTCCAGCATGTGTCAGCGAAATCCCCAGGTTTGTGGTCCTGGACG
CTGCGTTCCTAGGCCAAGCGGCTACACTTGTGCGTGCGACCCAGGTTTCCGGCTCGGCCCCCAGGGCACT
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CAGGCAGCTTTCGCTGCGTGTGCGGCACGGGCTTCCAAGCAGGCCCGCGGGCTACAGAGTGCCTGGATGT
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TGTGTGTGTCCCGCCGGGTACCAGGCAGCACCGCACGGAGCCAGCTGCCAGGATGTGGATGAATGCACCC
AGAGCCCAGGCCTCTGTGGTCGCGGGGTCTGCGAAAACCTGCCCGGCTCTTTCCGCTGTGTTTGCCCGGC
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GGCCGCTGCGACAACACCGCGGGTTCGTTCCACTGTGCCTGCCCAGCTGGCTTCCGATCCCGAGGACCAG
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GATGTGGATGAGTGTGAGAACCGCTTGGCGTGTCCAGGGCAGGAGTGTGTGAACTCACCGGGCTCCTTCC
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GGTTACCGGGCGCCATCTGGTCAACCTGGGCCTTGTGCAGACATAAATGAGTGTCTGGAAGGCGACTTCT
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TGGACCTCGTGGAGCATCTTGTCTGGACGTGGACGAGTGCAGCGAAGAGGATCTTTGCCAGAGCGGCATC
TGTACCAACACTGACGGCTCCTTCGAGTGCATCTGTCCTCCTGGACACCGCGCTGGCCCTGACCTTGCCT
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CCTACCGCTGCACACCAGCCTGCGACCCTGGCTATCAGCCTACACCAGGGGGCGGGTGCCAAGATGTGGA
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GTCTGTGACCAAGGCTACGAAGGGGCACGGGACGGACGTCACTGCGTGGATGTGAATGAGTGTGAGACAC
TACAGGGCGTGTGTGGCTCCGCGCTGTGTGAAAATGTTGAAGGCTCCTTCCTGTGTGTCTGCCCCAATAG
CCCTGAGGAATTTGATCCCATGACTGGACGCTGTGTTCCCCCACGGGCTCCTGCAGGCACGTTCCCTGGC
TCCCAGCCCCAAGCACCTGCCAGCCCCAGTCTTCCAGCCAGGCCACCAGCCCCTCCCCCACCTCGAAGAC
CCAGCCCTCCCAGGCAGGGTCCCGTGAGCAGTGGACGTCGCGAGTGCTACTTTGATACAGCCGCTCCAGA
TGCGTGTGACAATATCTTGGCCCGAAACGTGACGTGGCAGGAGTGCTGCTGTACTGTGGGAGAAGGCTGG
GGCAGCGGCTGCCGCATCCAACAGTGCCCGGGCACCGAGACAGCTGAATACCAGTCATTGTGTCCTCACG
GCCGGGGCTACCTGGTGCCCAGTGGAGACCTGAGTGCCCGGAGAGATGTGGACGAATGCCAACTCTTCCA
GGACCAGGTGTGCAAGAGCGGAGTGTGTGTGAACACGGCCCCAGGCTACTCTTGCTATTGCAGCAACGGG
TTCTACTATCACGCACACAGGCTGGAGTGCGTTGATAATGACGAATGTGCGGACGAGGAGCCTGCTTGTG
AAGGTGGCCGCTGCGTCAACACGGTGGGCTCTTACCACTGTACCTGCGAGCCCCCACTGGTGCTGGACGG
CTCCCGGCGACGCTGCGTCTCCAACGAGAGCCAGAGCCTGGATGACAATCTAGGAGTGTGCTGGCAGGAA
GTGGGACCTGATCTCGTCTGCAGTCGCCCACGACTAGACCGGCAGGCCACCTACACCGAGTGCTGCTGTC
TCTATGGTGAAGCCTGGGGTATGGACTGCGCTCTCTGTCCTGCCCAGGACTCAGATGACTTTGAGGCCCT
TTGCAATGTGCTGCGTCCACCTGCCTATGGCCCGCCGCGCCCTGGTGGCTTTGGAATTCCCTATGAATAT
GGCCCAGATATAGGCCCACCTTATCAGAGTCTCCCCTATGGGCCAGATCTGTATCCACCGCCAGTGCTAC
CCTACGACCCCTACCCACCCCCACCTGGACCCTTTGCTCGCCGGGAGGCCCCTTATGGCGCCCCACCCTT
CGACATGCCGGACTTTGAGGATGATGGTGGCCCCTATGGCGAGTCTGAGACTCCTGACCCACCTAGCCGA
GGCACTGGTTGGCCTTATCGGTCCAGAGACACCCGTGGCTCCTTCCCAGAGCCTGAGGAATCCTCTGAGC
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CTGGACATCACCCGCATGTCCTGTGTCGACGTCAACGAGTGTGATGAGGCAGAGGCAACCTCCCCACTCT
GCGTCAATGCGCGCTGTGTCAACACTGACGGCTCCTTCCGCTGTATCTGTCGTCCAGGATTTGCTCCCAC
GCATCAGCCACATCACTGTGCGCCTGCTCGACCCCGGGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001113549
Insert Size:	4803 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 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_001113549.1, NP_001107021.1
RefSeq Size:	5123 bp
RefSeq ORF:	4803 bp
Locus ID:	108075
UniProt ID:	Q8K4G1
Cytogenetics:	7 A3
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. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter and has a distinct N-terminus, compared to isoform a.

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