

## Product datasheet for MC224737

### Ltpb4 (NM\_001113549) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ltpb4 (NM\_001113549) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ltpb4  
**Synonyms:** 2310046A13Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224737 representing NM\_001113549  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGGCGGCGCAGCTGCTCTGGGTGTCGCTATTGGTGTGCTGCTGGCGCAGCTGGGGCCGAGCCCG  
 TACTGGGCGGACCCGAGAGCGTCTTCGCGTGCCTTACCCCGCTGTGTGCGGCTGCGTTGCATCCA  
 CGGGCCACTGGCTCCCCTGTACCCGACCTGCGCGCCCGCAACGCCACCAGCGTGGACAGCGGCGCG  
 CCCGGCGGGCGGCCCGGGGGACCCGGCTTCCGCGCCTTCTATGTCCCTTGATCTGTACAACGGTG  
 GTGTGTGTGAAGCCTGATCGCTGCCTTTGCCCGGACTTCGCTGGCAAATTCTGCCAATTGCATTC  
 TTCGGGGCCCGCCCGCCCGCCAGCCATGCCGGCCTTACCCGCTCCGTTTATAACAATGCCACTAGCC  
 AACCACCGCATGATGAACACGGAGTAGCATCGATGGTGAAGCGTGCACGTGGAGCACCCCTCAGGAGGCAT  
 CAGTGGTGGTGCACCAAGTGAACGTGTGTGGGGCCCTGGGAGGAGGCGAACCTGAAGCCCTAGCCAG  
 GGCTGAAGCGGCGCACGGGCGAGGCGGCGGCCCTACACAGTGTGGCACAGAGCGGCCACGCGAG  
 GACGGCTACTCAGACGCCTCCGGCTTCGTTACTGTTTTAGAGAACTGCGCGGAAGCGAATGTGCATCGC  
 CGTGTCCAGGGCTCCGGACGAGGAAGTCTGCTGCCAGGAGAGGGCTTGGCTGGGGTGTTCATGATT  
 TCACCCGTGCGCGAACACCTGAGGAACCTCAACCAAGTGAAGTGGCCAAATGGACCTTGTCCACCCGGC  
 TTCGAGAGAGTTAATGGGTCTGTGTAGATGTGGATGAGTGCGCCACCGTGGGCTTGGCAACACGGGG  
 AGTGTGCCAACACTCGTGGCGGCTACACGTGTGTATGTCCGGACGGTTTCTCCTGGACTCTTCCCGCAG  
 CAGCTGCATCTCCAACACGTGATCTCCGAGGCAAAGGGCCCTGCTACCGAGTGTGCATGATGGCGGA  
 TGCTCGTGCCTTCTCGAAATATACCAAACAGATCTGCTGTGTAGCCGTGTGGGCAAGGCGTGGG  
 GCCGAGGTGCCAGCTCTGTCCACCTTATGGTTCAGAGGGTTTTTCGGGAGATCTGTCCAGCTGGCCCTGG  
 CTACCACTATTCAGCTTCTGACCTCCGATACAACACCAGACCCCTAAACCAGGATCCACCTCGAGTGACC  
 TTCAATCAGCCAGTGTCCACCAGCCACCCCTCGGCCACCTACAGGCTTCTGCCTACTCGTCGACCTG  
 AGCCCCGCCCTGACCCTGGGCCACAGCCTGAACCCCGGCCCTCGGCTGAACCCCGGCCCTCGGCTGAATC  
 CCGACCTCGGCTGAACCCCGGCCCTCGGCTGAACCCCGGCCCTAGCCTGAATCCAGCCTAGGCCTGAA  
 TCCCGGCCCTCGGCTGAATCCAGCCTTGGCTGAATTTCCCTGCCAGCATCCCTGCTTGGACCGGTC



CAGAGATTCTGAATCAGGTCCTCTTCCAGCATGTGTCAGCGAAATCCCCAGGTTTGTGGTCTGGACG  
 CTGCGTTCCTAGGCCAAGCGGCTACACTTGTGCGTGCGACCCAGGTTTCCGGCTCGGCCCCAGGGCACT  
 CGCTGCATTGACATAGATGAATGTCCGCCGCTCCCTACACCCTGTGCTCCTGGGCGTTGCGAGAATACAC  
 CAGGCAGCTTTCGCTGCGTGTGCGGCACGGGCTTCCAAGCAGGCCCGGGCTACAGAGTGCCTGGATGT  
 GGACGAGTGCCGCCGCGTGCCGCCGCGTGTGACCGGGGCGTGCGAGAACACGCCAGGCAGTTTCTTA  
 TGTGTGTGTCGCCCGGGTACCAGGCAGCACCGCAGCCAGTGCAGGATGTGGATGAATGCACCC  
 AGAGCCACGGCTCTGTGGTCCGGGGTCTGCGAAAACCTGCCGGCTCTTCCGCTGTGTTGCCCGGC  
 TGGCTTCCGGGGCTCGGGGTGTGAAGAAGATGTGGATGAATGTGCCAGCAGCCTCCGCCTTGGCGCCA  
 GGCCGCTGCGACAACACCGCGGGTTCGTTCCACTGTGCCTGCCAGCTGGCTTCCGATCCCGAGGACCAG  
 GAGCCCCCTGCCAAGATGTGGATGAATGTTCCCGAGCCCTCGCCTTGTGCCTATGGCCGTGTGAGAA  
 CACGGAAGGCAGCTTCAAGTGTGTGCGCAACAGGCTTCCAACCAACGCTGCGGGCTCCGAGTGCAG  
 GATGTGGATGAGTGTGAGAACCGCTTGGCGTGTCCAGGGCAGGAGTGTGTAACCTACCGGGCTCCTTCC  
 AGTGCCGGGCTGCCCTGTTGGGACACCCTGCACCGTGCAGATGTACTGATGTGGATGAATGCAGTTC  
 GGGACCCCTTGTGCTCCATGGCCAGTGCACAAATACTAAAGGCTCCTTCCACTGCAGCTGCTCGACA  
 GGTACCAGGGCGCCATCTGGTCAACCTGGGCTTGTGCAGACATAAATGAGTGTCTGGAAGGCGACTTCT  
 GCTTCCCCACGGAGAGTGCCTCAACACTGATGGCTCCTTACCTGTACCTGTGCCCTGGCTACCGGCC  
 TGGACCTCGTGGAGCATCTTGTCTGGACGTGGACGAGTGCAGCGAAGAGGATCTTTGCCAGAGCGGCATC  
 TGTACCAACTGACGGCTCCTTCGAGTGCATCTGTCTCCTGGACACCGCGTGGCCCTGACCTTGGCT  
 CCTGCCTTGACATTGACGAGTGTGTAACGGGACCTGCCCTGTGCGGGTCTCAGCGCTGTGAAAATTC  
 TCCTGGTTCCTACCGTGTGTGCGGGACTGCGATCCAGGTTACCACCCGGCCCTGAGGGACCTGTGAT  
 GACATTGATGAGTGCAGAGAATACGGCTCTGCGATTTGTGGTCCAGCGCTGTGAGAACACCCCGGGT  
 CCTACCGCTGCACACAGCCTGCGACCTGGCTATCAGCTACACCAGGGGGCGGGTCCCAAGATGTGGA  
 TGAATCCCGGAACCGGTCTTCTGCGGGCCCATGCTATGTGCCAGAATCTGCCTGGGCTCTTCCAGTGC  
 GTCTGTGACCAAGGCTACGAAGGGGACGGGACGACGCTACTGCGTGGATGTGAATGAGTGTGAGACAC  
 TACAGGGCGTGTGGCTCCGCGCTGTGTGAAAATGTTGAAGGCTCCTTCTGTGTGTCTGCCCCAATAG  
 CCCTGAGGAATTTGATCCCATGACTGGACGCTGTGTTCCCCACGGGCTCCTGCAGGCACGTTCCCTGGC  
 TCCCAGCCCCAAGCACCTGCCAGCCCCAGTCTTCCAGCCAGGCCACCAGCCCCCTCCCCACCTCGAAGAC  
 CCAGCCCTCCCAGGCAGGGTCCCGTGGCAGTGGACGTCGCGAGTGTACTTTGATACAGCCGCTCCAGA  
 TGCGTGTGACAATATCTTGGCCGAAACGTGACGTGGCAGGAGTGTGCTGTACTGTGGGAGAAGGCTGG  
 GGCAGCGGCTGCCGATCCAACAGTGCCGGGCACCGAGACAGTGAATACCAGTATTGTGCTCCTCAG  
 GCCGGGCTACCTGGTGCCAGTGGAGACCTGAGTGGCCGAGAGATGTGGACGAATGCCAACTCTTCCA  
 GGACCAGTGTGCAAGAGCGGAGTGTGTGTAACACGGCCCCAGGCTACTTGTCTATTGCAAGAACGGG  
 TTTACTATCACGCACACAGGCTGGAGTGCCTGATAATGACGAATGTGCGGACGAGGAGCCTGCTGTG  
 AAGGTGGCCGCTGCGTCAACACGGTGGGCTCTTACCCTGTACCTGCGAGCCCCACTGGTGTGGACGG  
 CTCCCAGGCGAGCTGCGTCTCCAACGAGAGCCAGAGCCTGGATGACAATCTAGGAGTGTGCTGGCAGGAA  
 GTGGGACCTGATCTGCTGCGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGC  
 TCTATGGTGAAGCCTGGGGTATGGACTGCGCTCTCTGTCTGCCAGGACTCAGATGACTTTGAGGCCCT  
 TTGCAATGTGCTGCGTCCACTGCCTATGGCCCGCGCCCTGGTGGCTTTGGAATCCCTATGAATAT  
 GGCCAGATATAGGCCACCTTATCAGAGTCTCCCTATGGCCAGATCTGTATCCACCGCCAGTGCATAC  
 CCTACGACCCCTACCCACCCCACTGGACCTTTGCTCGCCGGAGGCCCTTATGGCGCCCCACCTT  
 CGACATGCCGACTTTGAGGATGATGGTGGCCCTATGGCGAGTCTGAGACTCCTGACCCACCTAGCCGA  
 GGCAGTGGTTGGCCTTATCGGTCCAGAGACACCGTGGCTCCTTCCCAGAGCCTGAGGAATCCTCTGAGC  
 GTGGAAGCTATACAGGAGCCTTGTCTGAGCCCTATGAGGGCTAGAGGCCGAAGAGTGTGGTATCCTGGA  
 TGGCTGCCCTCACGGCCGCTGTGTGCGGTTCCAGAAGGCTTACCTGCGATTGTTTCGATGGCTACCGC  
 CTGGACATCACCCGATGCTGTGTGCGAGTCAACGAGTGTGATGAGGCAGAGGCAACCTCCCCACTCT  
 GCGTCAATGCGCGCTGTGTCAACACTGACGGCTCCTTCCGCTGTATCTGTGCTCCAGATTGCTCCAC  
 GCATCAGCCACATCACTGTGCGCTGCTCGACCCGGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

|                               |  |
|-------------------------------|--|
| <b>ACCN:</b>                  | NM_001113549   |
| <b>Insert Size:</b>           | 4803 bp  |
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_001113549.1</a> , <a href="#">NP_001107021.1</a>  |
| <b>RefSeq Size:</b>           | 5123 bp  |
| <b>RefSeq ORF:</b>            | 4803 bp  |
| <b>Locus ID:</b>              | 108075   |
| <b>UniProt ID:</b>            | <a href="#">Q8K4G1</a>   |
| <b>Cytogenetics:</b>          | 7 A3   |
| <b>Gene Summary:</b>          | <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. [UniProtKB/Swiss-Prot Function]</p> <p>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.</p>   |