

Product datasheet for MR222718

Ltbp4 (NM_175641) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ltbp4 (NM_175641) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ltbp4
Synonyms:	2310046A13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222718 representing NM_175641 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCCGGCCTGGCCTCGGCGGCCCTGCCCTCTTGCTGCTGCTGCTGCCAGCCGCCACATCTG
CTAGCGGCTCCAGTCCCAGCCCCAGCCCCAGCCCCATCGAGAAAGCGGTGGTCCCAGCCACCAGGCCGG
TGTTGCTGCCTGCTACTGCTGCCTAGACCAGACACCTAAGAGTAGCCGCTGCACCCGAGCTTCTGCAGG
GTCCGGAAGTCCCACTGCCAAGTGCACAGGTCTAGAGGGGTGCCTGACCCCAACACCTTCGGTGCCCA
GCCCCAGCCGAGTCCCCTGGAGAAGAGTCAGGTATCCCTCAACTGGCAGCCACTGACTTTCGAGGAGGC
CCGAGCTCTGCTGAGGCAAAGGCCGCCCGAGGGCCGTGGGCCCGGGCATTGCTGAAAAGAAGGCCCCCA
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GATGAACACGGAGTAGCATCGATGGTGAGCGTGCACGTGGAGCACCCCTCAGGAGGCATCAGTGGTGGTGC
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AGCTTCTGACCTCGATACAACACCAGACCCTAAACCAGGATCCACCTCGAGTGACCTTAATCAGCCA



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CGTGTTCCACCAGCCACCCCTCGGCCACCTACAGGCTTTCTGCCTACTCGTCGACCTGAGCCCCGCCCTG
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 GCTGTGTCAACTGACGGCTCCTTCCGCTGTATCTGTGTCAGGATTTGCTCCACGCATCAGCCACA
 TCACTGTGCGCCTGCTCGACCCGGCC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222718 representing NM_175641
Red=Cloning site Green=Tags(s)

MRRPGLGGPCPLLLLLLLPAATSASGSSPSPSPSIEKAVVPSHQAGVAACHCCLDQTPKSSRCTRASCR
VRNCPPAKCTGLEGLTPTPSVPSRSPVEKSQVSLNWQPLTLQEARALLRQRRPRGPWARALLKRRPP
HRAPAGQARVLCPLICHNGGVCVKPDRCLCPPDFAGKFCQLHSSGARPPAPAMPGLTRSVYTMLANHRD
DEHGVASMVSVHVEHPQEASVVVHQVERVSGPWEANPEALARAEAAAARAEAAAPYTVLAQSAPREDGYS
DASGFGYCFRELRGSEACASPLPLRTQEVCCRGEGLAWGVHDCHPCAHLRNSNQVSGPNGPCPPGFERV
NGSCVDVDECATGGRCQHGECANTRGGYTCVCPDGFLLDSSRSSCISQHVISEAKGPCYRVLHDGGCSLP
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RIQQCPGTETAQYQLCPHGRGYLVPSGDL SARRDVDECQLFQDQVCKSGVCVNTAPGYSCYCSNGFYH
AHRLECDVNDACADEEACEGGRCVNTVGSYHCTCEPPLVLDGSRRCVSNESQSLDDNLGVCWQEVGPD
LVCSRPRLDQATYTECCCLYGEAWGMDCALCPAQSDDFEALCNVLRPPAYGPPRPGGFGIPYEYGPDI
GPPYQSLPYGPDLYPPPVLYPDYPYPPPPGPFARREAPYGAPPFDMPDFEDDGGPYGESETPDPPSRGTGW
PYRSRDRGTFPEPEESSERGSYTGALSEPYEGLEAECEGILDGCPHGRCVRVPEGFTCDCFDGYRLDIT
RMSCVDVNECDEAEATSPLCVNARCVENTDGSFRICRPGFAPTHQPHHCAPARPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9091_e08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_175641

ORF Size: 4998 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

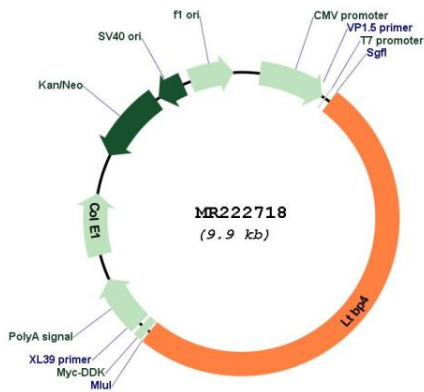
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_175641.2, NP_783572.2](#)
RefSeq Size: 5322 bp
RefSeq ORF: 5001 bp
Locus ID: 108075
UniProt ID: [Q8K4G1](#)
Cytogenetics: 7 A3
MW: 178.6 kDa

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]

Product images:



Circular map for MR222718