

Product datasheet for RC216920

LTBP4 (NM_001042545) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LTBP4 (NM_001042545) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LTBP4
Synonyms: ARCL1C; LTBP-4; LTBP4L; LTBP4S
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC216920 representing NM_001042545
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGGATCGCC

ATGGCGGGCGGCTGCGGCTGCTCTGGGTGTCGCTATTGGTGTGCTGCTGGCGCAGCTAGGGCCGACGCTG
GACTGGGCGGCTCGGAGAGCGTCTCCGCTGCGCTTACCCCGTCTGTGCGGCTGCGCTGCGTCCA
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CCCGCGGGGCGGCCCGGGGGACCCGGCTTCCGCGCCTTCTGTGTCCCTTGATCTGTACAATGGCG
GTGTGTGCGTGAAGCCTGACCGCTGCTCTGTCCCGGACTTCGCTGGCAAGTTCTGCCAGTTGCACTC
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CGGTGGTGGTGCACAGGTGGAGCGTGTGTCTGGCCCTTGGGAGGAGCGGACGCTGAGGCGGTGGCGCG
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AGGGCACCCGATGCATTGATGTGGACGAATGTCGCCCGCTGCCCCGCCCTGTGCTCCCGGGCGCTGCGA
GAACTCACCAGGCAGCTCCGCTGCGTGTGCGGCCGGGCTCCGAGCCGGCCACGGGCTGCGGAATGC
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ACGCGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC216920 representing NM_001042545
 Red=Cloning site Green=Tags(s)

MAGGVRLLVWVLLVLLAQLGPQPLGRLGERLVRVFTPVVCGLRVHGPTGSRCTPTCAPRNATSVDSGA
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 FERVNGSCEDVDECATGGRCQHGEACANTRGGYTCVCPDGFLLDSSRSCISQHVISEAKGPCFRVLRDGG
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 PGRICISRPSGYTCACDSGFRLSPQGRTRIDVDECRRVPPPCAPGRCENSPGSFRCVCGPFRAGPRAAEC
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 GYRPGPRGASCLDVDECSSEDLCSQSGICTNTDGSFECICPPGHRAGPDLASCLDVDECRRERGPALCGSQR
 CENSPGSYRCVRDCDPGYHAGPEGTCDVDECEYGPETCGAQRCENTPGSYRCTPACDPGYQPTPGGGC
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 CPNSPEEFDPMTRGRCVPRTSAGTFPGSQPAPASVLPARPPPPPLPRRSTPRQGPVGSGRRECYFDT
 AAPDACDNI LARNVTWQECCTVGEWGS GCRIQQCPGTETA EYQSLCPHGRGYLAPSGDLSLRD VDEC
 QLF RDQVCKSGVCVNTAPGYSCYCSNGY YHTQRLECIDNDECADEEPACEGGRCVNTVGSYHCTCEPPL
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 FEALCNVLRPPAYSPPRPGGGLPYEYGPDLGPPYQGLPYGPEL YPPPALPYDPYPPPPGFARREAPYG
 APRFDMPDFEDDGGPYGESEAPPPGPGTRWPYRSRDRRSFPEPEEPPGGSYAGSLAEPYEELEAEEC
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 FAPTHQPHHCAPARPA

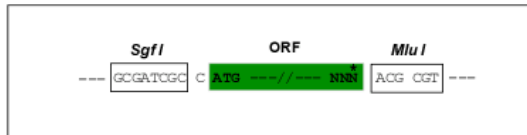
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

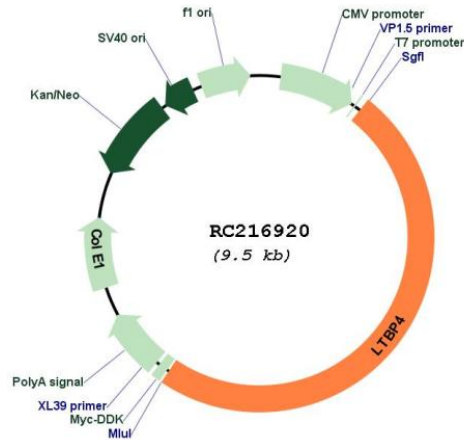
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001042545

ORF Size: 4671 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_001042545.2](#)

RefSeq Size: 4979 bp

RefSeq ORF: 4674 bp

Locus ID: 8425

UniProt ID: [Q8N2S1](#)

Cytogenetics: 19q13.2

Protein Families: Druggable Genome

MW: 165.6 kDa

Gene Summary: The protein encoded by this gene binds transforming growth factor beta (TGFB) as it is secreted and targeted to the extracellular matrix. TGFB is biologically latent after secretion and insertion into the extracellular matrix, and sheds TGFB and other proteins upon activation. Defects in this gene may be a cause of cutis laxa and severe pulmonary, gastrointestinal, and urinary abnormalities. Three transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2010]