

Product datasheet for RC220132

LTBP1 (NM_206943) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LTBP1 (NM_206943) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LTBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220132 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGGGCTGGCTCAGGTGGGGCTCCTGCTCTGGGCAGGGCTCCTCGCGTCTCGGCGCACGGCC
GGCTGCGGAGGATCACCTACGTGGTGCACCCGGGCCCCGGCTGGCAGCCGGCGCCTTGCCCTGAGCGG
GCCCCCGGTTTCGCGGACATTCAACGTGCGCTCAACGCCAGGTACAGCCGACGTCGGCGGCTGCCGGC
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CCTGACAGGGGCTCAGACCGCCGCGCCGCGCCGCGGAGCTGCGCGTCCCCTGCGCGCGGCGGCGG
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CTCAACCAGGCCAATCCCAAGTCTCGTACCAAGGGCTTCTGTCCAGAAGACCCAGACCATACATTCCAC



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ATACTCCCACCAGCAGGTCATTCCCTCACGTCTACCCCGTGGCTGCTAAGACACAGCTTGGCCGGTGCTTC
 CAGGAAACCATTGGGTACAGTGTGGCAAAGCGCTCCCTGGCCTTTCAAAGCAAGAGGACTGCTGTGGAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220132 protein sequence
Red=Cloning site Green=Tags(s)

MAGAWLRWGLLLWAGLLASSAHGRLRRITYVVHPGPLAAGALPLSGPPRSRTFNVNALNARYSRSSAAAG
APSRASPGVPSERTRRTSKPGGAALQGLRPPPPPPPEPARPAVPGGQLHPNPGGHPAAAPFTKQGRQVVR
SKVPQETQSGGGSRLQVHQKQQLQGVNVCGRRCCHGWSKAPGSQRCTKPSCVPPCQNGMCLRPQLCVCK
PGTKGKACETIAAQDTSSPVFVGGQSPGAASSWGPPEQAAKHTSSKKADTLPRVSPVAQMTLTLKPKPSVG
LPQQIHSQVTPPLSSQSVVIHHGQTQEYVLKPKYFPAQKGISGEQSTEGSFPLRYVQDQVAAPFQLSNHTG
RIKVVVTPSICKVTCTKGSCQNSCEKGNNTTLISENGHAADTLTATNFRVVICHLPCMNGGQCSSRDKQ
CPPNFTGKLCQIPVHGASVPKLYQHSQQPGKALGTHVIHSTHTLPLTVTSQQGVKVFPPNIVNIHVKHP
PEASVQIHQVSRIDGPTGQKTKEAQPQQSQVSYQGLPVQKTQTIHSTYSHQQVIPHVYYPVAAKTQLGRCF
QETIGSQCGKALPGLSKQEDCCGTGTSWGFNKQKCPKPSYHGYNQMMELPGYKRVNNTFCQDINEC
QLQGVCPNGECLNTMGSYRCTCKIGFGDPDTSFCVDPPIVISEEKGPCYRLVSSGRQCMHPLSVHLTKQ
LCCCSVGKAWGPHCEKCLPGTAAFKEICPGMGYTVSGVHRRRPIHHHVKGKPVFVKPKNTQPVAKSTH
PPPLPAKEEPVEALTFREHGPVGAPEVATAPPEKEIPSLDQEKTKLEPGQPQLSPGISTIHLHPQFPV
VIEKTSPPVPVEVAPEASTSSASQVIAPTQVTEINECTVNPDICGAGHCINLPVRYTCICYEGYRFSEQQ
RKCVDIDECTQVQHLCSQGRCENTEGSFLCICPAGFMASEEGTNCIDVDECLRPDVCGEHCNVTVGAFR
CEYCDSGYRMTQRGRCEDIDECLNPSTCPDEQCVNSPGSYQCVPCTEGFRGWNGQCLDVDECLPNVCAN
GDCSNLEGSYMCCHKGYTRTPDHKHCRIDECQQGNLCVNGQCKNTEGSFRCTCGQGYQLSAAKDQCED
IDECQHRHLCAHGQCRNTEGSFCVCDQGYRASGLGDHCEIDNECLEDKSVCQRGDCINTAGSYDCTCPD
GFQLDDNKTCQDINECEHPGLCGPQGECLNTEGSFHCVCQQGFSISADGRTCEDIDECVNNTVCDSSHGFC
DNTAGSFRCLCYQGFQAPQDQGCVDVNECELLSGVCGEAFENVEGSFLCVCADENQEYSPMTGQCRSR
TSTDLDVDVDQPKKEEKECYNLDASLNDNLAPNVTQEQCCSTSGAGWGDNCEIFPCPVLGTAEFTEM
CPKGGKGFVPAGESSEAGGENYKDADECLLFGQEI CKNGFCLNTRPGYECYCKQGTYYDPVKLQCFDMDE
CQDPSSCIDGQCVNTEGSYNCFCTHPMVLDASEKRCIRPAESNEQIEETDVYQDLWEHL SDEYVCSRPL
VGKQTTYTECCCLYGEAWGMQCALCPLKSDDYAQLCNIPVTGRRQPYGRDALVDFSEQYTPADPYFIQ
DRFLNSFEELQAECEGILNGCENGRCVRVQEGYTCDFDGYHLDTAKMTCVDVNECELDLNNRMSLCKNAK
CINTDGSYKCLCLPGYVPSDKPNYCTPLNTALNLEKDSLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8014_a12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_206943

ORF Size: 5163 bp

OTI Disclaimer: 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_206943.3](#)

RefSeq Size: 6168 bp

RefSeq ORF: 5166 bp

Locus ID: 4052

UniProt ID: [Q14766](#)

Cytogenetics: 2p22.3

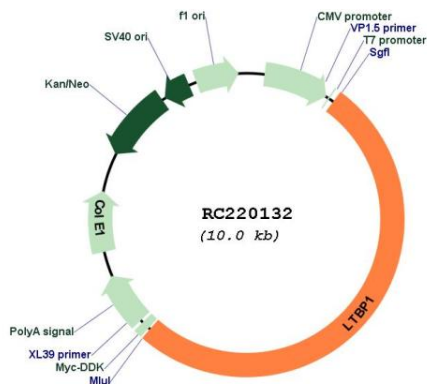
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: TGF-beta signaling pathway

MW: 186.8 kDa

Gene Summary: The protein encoded by this gene belongs to the family of latent TGF-beta binding proteins (LTBPs). The secretion and activation of TGF-betas is regulated by their association with latency-associated proteins and with latent TGF-beta binding proteins. The product of this gene targets latent complexes of transforming growth factor beta to the extracellular matrix, where the latent cytokine is subsequently activated by several different mechanisms. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC220132