OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG220132

LTBP1 (NM_206943) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LTBP1 (NM_206943) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LTBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG220132 representing NM_206943
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGGGGCCTGGCTCAGGTGGGGGCTCCTGCTCTGGGCAGGGCTCCTCGCGTCCTCGGCGCACGGCC
GGCTGCGGAGGATCACCTACGTGGTGCACCCGGGCCCCGGCCTGGCAGCCGGCGCCTTGCCCCTGAGCGG
GCCCCCGCGTTCGCGGACATTCAACGTCGCGCTCAACGCCAGGTACAGCCGCAGCTCGGCGGCTGCCGGC
GCCCCCAGCCGTGCCTCCCCCGGGGTCCCCTCGGAGAGGACCCGGCGCACGAGCAAGCCGGGCGGCGCGG
CCCTGCAGGGGCTCAGACCGCCGCCGCCGCCGCCGCCGGAGCCTGCGCGTCCCGCGGTCCCCGGCGGGCA
GCTCCACCCCAATCCCGGCGGCCACCCGGCAGCCGCCCCGTTCACCAAACAAGGCAGGCAAGTTGTGCGC
TCCAAGGTGCCGCAGGAGACCCAGAGCGGCGGAGGCTCTAGGCTGCAGGTTCACCAGAAGCAGCAGCTGC
AGGGGGTCAATGTCTGTGGAGGGCGGTGCTGTCATGGCTGGAGTAAGGCCCCTGGCTCCCAGAGGTGCAC
CAAACCTAGCTGTGTTCCGCCATGTCAGAATGGAGGGATGTGTCTCCGGCCACAACTCTGTGTGTGTAAA
CCAGGGACCAAGGGCAAAGCCTGTGAAACAATAGCTGCCCAGGACACCTCGTCACCAGTCTTTGGAGGGC
AGAGTCCTGGGGCTGCTTCCTCGTGGGGCCCTCCTGAGCAAGCAGCAAAGCATACTTCATCTAAGAAGGC
AGACACTCTACCAAGAGTCAGCCCTGTGGCCCAGATGACCTTAACCCTCAAGCCGAAGCCTTCAGTGGGA
CTCCCCCAGCAGATACATTCTCAAGTGACTCCTCTTTCTTCCCAGAGTGTGGTGATTCACCATGGCCAGA
CCCAGGAATACGTGCTCAAGCCCAAGTACTTTCCAGCCCAGAAGGGGATTTCAGGAGAGCAGTCCACTGA
AGGTTCTTTCCCTTTAAGATATGTGCAGGATCAAGTTGCGGCACCTTTTCAGCTGAGTAACCACACTGGC
CGCATCAAGGTGGTCTTTACTCCGAGCATCTGTAAAGTGACCTGCACCAAGGGCAGCTGTCAGAACAGCT
GTGAGAAGGGGAACACCACCACTCTCATTAGTGAGAATGGTCATGCTGCCGACACCCTGACGGCCACGAA
CTTCCGAGTGGTAATTTGCCATCTTCCATGTATGAATGGTGGCCAGTGCAGTTCAAGGGACAAATGTCAG
TGCCCTCCAAATTTCACAGGAAAACTTTGTCAGATCCCAGTCCATGGTGCCAGCGTGCCTAAACTTTATC
AGCATTCCCAGCAGCCAGGCAAGGCGTTGGGGACGCATGTCATCCATTCAACACATACCTTGCCTCTGAC
CGTGACTAGCCAGCAAGGAGTCAAAGTGAAATTTCCTCCTAACATAGTCAATATCCATGTGAAACATCCT
CCTGAAGCTTCCGTCCAGATACATCAGGTTTCAAGAATTGATGGCCCAACAGGCCAGAAGACAAAAGAAG
CTCAACCAGGCCAATCCCAAGTCTCGTACCAAGGGCTTCCTGTCCAGAAGACCCAGACCATACATTCCAC

View online »

ATACTCCCACCAGCAGGTCATTCCTCACGTCTACCCCGTGGCTGCTAAGACACAGCTTGGCCGGTGCTTC
CAGGAAACCATTGGGTCACAGTGTGGCAAAGCGCTCCCTGGCCTTTCAAAGCAAGAGGACTGCTGTGGAA
CTGTGGGTACCTCCTGGGGCTTTAACAAATGCCAGAAATGCCCCAAGAAACCATCTTATCATGGATACAA
CCAAATGATGGAATGCCTACCGGGTTATAAGCGGGTTAACAACACCTTTTGCCAAGATATTAATGAATGT
CAGCTACAAGGTGTATGCCCTAATGGTGAGTGTTTGAATACCATGGGCAGCTATCGATGTACCTGCAAAA
TAGGATTTGGGCCGGATCCTACCTTTTCAAGTTGTGTTCCTGATCCCCCTGTGATCTCGGAAGAGAAAGG
GCCCTGTTACCGACTTGTCAGTTCTGGAAGACAGTGTATGCACCCTCTGTCTGTTCACCTCACCAAGCAG
CTCTGCTGTTGTAGTGTGGGCAAGGCCTGGGGCCCACACTGTGAGAAATGTCCCCTTCCAGGCACAGCTG
CTTTTAAGGAAATCTGTCCTGGTGGAATGGGTTATACGGTTTCTGGCGTTCATAGACGCAGGCCAATCCA
TCACCATGTAGGTAAAGGACCTGTATTTGTCAAGCCAAAGAACACTCAACCTGTTGCTAAAAGTACTCAT
CCTCCACCTCTCCCAGCCAAGGAAGAGCCAGTGGAGGCCCTGACCTTCTCCCGGGAACACGGGCCAGGAG
TGGCGGAGCCAGAAGTGGCAACTGCACCCCCTGAAAAGGAAATACCTTCATTGGATCAAGAGAAAACCAA
ACTTGAGCCTGGTCAACCCCAGCTGTCTCCAGGCATTTCCACTATTCATCTGCATCCACAGTTTCCAGGT
ATAGTGATTGAAAAAACATCACCTCCTGTGCCTGTTGAAGTAGCTCCTGAAGCTTCTACGTCTAGTGCCA
GCCAAGTGATTGCTCCTACTCAAGTGACAGAAATCAATGAATGTACTGTGAACCCTGATATCTGTGGAGC
AGGACACTGCATTAACCTACCAGTGAGATATACCTGTATATGCTACGAGGGCTACAGGTTCAGTGAACAA
CAGAGGAAATGTGTGGATATTGATGAGTGTACTCAGGTCCAACACCTCTGCTCCCAGGGCCGCTGTGAAA
ACACCGAGGGAAGTTTCTTGTGCATTTGCCCAGCAGGATTTATGGCCAGTGAGGAGGGTACTAACTGCAT
AGATGTTGACGAATGCCTGAGGCCGGACGTCTGTGGGGAGGGGCACTGTGTCAATACTGTGGGGGCCTTC
CGGTGTGAATACTGTGACAGCGGGTACCGCATGACTCAGAGAGGCCGTTGTGAGGATATTGATGAATGTT
TGAATCCAAGCACTTGTCCAGATGAGCAGTGTGTGAATTCTCCTGGATCTTACCAGTGCGTTCCCTGCAC
AGAAGGATTCCGAGGCTGGAATGGACAGTGCCTTGATGTGGACGAGTGCCTGGAACCAAACGTCTGCGCA
AATGGTGATTGTTCCAACCTTGAAGGCTCCTACATGTGTTCATGCCACAAAGGCTATACCCGGACTCCGG
ACCACAAGCACTGTAGAGATATTGATGAATGTCAGCAAGGGAATCTATGTGTAAACGGGCAGTGCAAAAA
TACCGAGGGCTCCTTCAGGTGCACCTGTGGACAGGGGTACCAGCTGTCGGCAGCTAAAGACCAGTGTGAA
GACATTGATGAATGCCAGCACCGTCATCTCTGTGCTCATGGGCAGTGCAGGAACACTGAGGGCTCTTTTC
AATGTGTGTGTGACCAGGGTTACAGAGCATCTGGGCTTGGAGACCACTGTGAAGATATCAATGAATGCTT
GGAGGACAAGAGTGTTTGCCAGAGAGGAGACTGCATTAATACTGCAGGGTCCTATGATTGTACTTGTCCG
GATGGATTTCAGCTAGATGACAATAAAACATGTCAAGATATTAATGAATGTGAACATCCAGGGCTCTGTG
GTCCGCAAGGGGAGTGCCTAAACACAGAGGGTTCTTTCCATTGTGTCTGCCAGCAGGGTTTCTCAATCTC
TGCAGATGGCCGTACGTGTGAAGATATTGATGAATGTGTAAACAACACTGTTTGTGACAGTCACGGGTTT
TGTGACAATACAGCTGGCTCCTTCCGCTGCCTCTGTTATCAGGGCTTTCAAGCCCCACAGGATGGGCAAG
GGTGTGTGGATGTGAATGAATGTGAACTGCTCAGTGGGGTGTGTGGTGAAGCCTTCTGTGAAAACGTGGA
AGGGTCCTTCCTGTGCGTGTGTGCTGATGAAAACCAAGAGTACAGCCCCATGACTGGGCAGTGCCGCTCC
CGGACCTCCACAGATTTAGATGTAGATGTAGATCAACCCAAAGAAGAAAAGAAAGAATGCTACTATAATC
TCAATGACGCCAGTCTCTGTGATAATGTGTTGGCCCCCAATGTCACGAAACAAGAATGCTGCTGTACATC
AGGCGCGGGATGGGGAGATAACTGCGAAATCTTCCCCTGCCCGGTCTTGGGAACTGCTGAGTTCACTGAA
ATGTGTCCCAAAGGGAAAGGTTTTGTGCCTGCTGGAGAATCATCTTCTGAAGCTGGTGGTGAGAACTATA
AAGATGCAGATGAATGCCTACTTTTTGGACAAGAAATCTGCAAAAATGGTTTCTGTTTGAACACTCGGCC
TGGGTATGAATGCTACTGTAAGCAAGGGACGTACTATGATCCTGTGAAACTGCAGTGCTTTGATATGGAT
GAATGTCAAGACCCCAGTAGTTGTATTGATGGCCAGTGTGTTAATACAGAGGGCTCTTACAACTGCTTCT
GTACTCACCCCATGGTCCTGGATGCGTCAGAAAAAAGATGTATACGACCGGCTGAGTCAAACGAACAAAT
AGAAGAAACTGATGTCTACCAAGATTTGTGCTGGGAACATCTGAGTGATGAATACGTGTGTAGCCGGCCT
CTTGTGGGCAAGCAGACAACGTACACTGAGTGCTGCTGTCTGTATGGAGAGGCCTGGGGCATGCAGTGTG
CCCTCTGCCCCCTGAAGGATTCAGATGACTATGCTCAGCTGTGTAACATCCCCGTGACGGGACGCCGGCA
GCCATATGGACGGGACGCCTTGGTTGACTTCAGTGAACAGTATACTCCAGAAGCCGATCCCTACTTCATC
CAAGACCGTTTTCTAAATAGCTTTGAGGAGTTACAGGCTGAGGAATGCGGCATCCTCAATGGATGTGAAA
ATGGTCGCTGTGTGAGGGTCCAGGAAGGTTACACCTGCGATTGCTTTGATGGGTATCACTTGGATACGGC
CAAGATGACCTGTGTCGATGTAAATGAATGCGATGAGTTGAACAACCGGATGTCTCTCTGCAAGAATGCC
AAGTGCATTAACACCGATGGTTCCTACAAGTGTTTGTGTCTGCCAGGCTACGTGCCTTCTGACAAGCCAA
ACTACTGCACTCCGTTGAATACCGCCTTGAATTTAGAGAAAGACAGTGACCTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

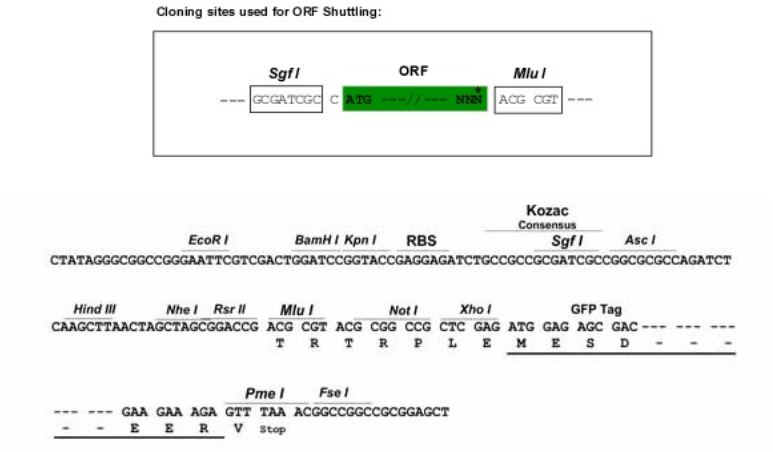
>RG220132 representing NM_206943
Red=Cloning site Green=Tags(s)

MAGAWLRWGLLLWAGLLASSAHGRLRRITYVVHPGPGLAAGALPLSGPPRSRTFNVALNARYSRSSAAAG
APSRASPGVPSERTRRTSKPGGAALQGLRPPPPPPPEPARPAVPGGQLHPNPGGHPAAAPFTKQGRQVVR
SKVPQETQSGGGSRLQVHQKQQLQGVNVCGGRCCHGWSKAPGSQRCTKPSCVPPCQNGGMCLRPQLCVCK
PGTKGKACETIAAQDTSSPVFGGQSPGAASSWGPPEQAAKHTSSKKADTLPRVSPVAQMTLTLKPKPSVG
LPQQIHSQVTPLSSQSVVIHHGQTQEYVLKPKYFPAQKGISGEQSTEGSFPLRYVQDQVAAPFQLSNHTG
RIKVVFTPSICKVTCTKGSCQNSCEKGNTTTLISENGHAADTLTATNFRVVICHLPCMNGGQCSSRDKCQ
CPPNFTGKLCQIPVHGASVPKLYQHSQQPGKALGTHVIHSTHTLPLTVTSQQGVKVKFPPNIVNIHVKHP
PEASVQIHQVSRIDGPTGQKTKEAQPGQSQVSYQGLPVQKTQTIHSTYSHQQVIPHVYPVAAKTQLGRCF
QETIGSQCGKALPGLSKQEDCCGTVGTSWGFNKCQKCPKKPSYHGYNQMMECLPGYKRVNNTFCQDINEC
QLQGVCPNGECLNTMGSYRCTCKIGFGPDPTFSSCVPDPPVISEEKGPCYRLVSSGRQCMHPLSVHLTKQ
LCCCSVGKAWGPHCEKCPLPGTAAFKEICPGGMGYTVSGVHRRRPIHHHVGKGPVFVKPKNTQPVAKSTH
PPPLPAKEEPVEALTFSREHGPGVAEPEVATAPPEKEIPSLDQEKTKLEPGQPQLSPGISTIHLHPQFPG
IVIEKTSPPVPVEVAPEASTSSASQVIAPTQVTEINECTVNPDICGAGHCINLPVRYTCICYEGYRFSEQ
QRKCVDIDECTQVQHLCSQGRCENTEGSFLCICPAGFMASEEGTNCIDVDECLRPDVCGEGHCVNTVGAF
RCEYCDSGYRMTQRGRCEDIDECLNPSTCPDEQCVNSPGSYQCVPCTEGFRGWNGQCLDVDECLEPNVCA
NGDCSNLEGSYMCSCHKGYTRTPDHKHCRDIDECQQGNLCVNGQCKNTEGSFRCTCGQGYQLSAAKDQCE
DIDECQHRHLCAHGQCRNTEGSFQCVCDQGYRASGLGDHCEDINECLEDKSVCQRGDCINTAGSYDCTCP
DGFQLDDNKTCQDINECEHPGLCGPQGECLNTEGSFHCVCQQGFSISADGRTCEDIDECVNNTVCDSHGF
CDNTAGSFRCLCYQGFQAPQDGQGCVDVNECELLSGVCGEAFCENVEGSFLCVCADENQEYSPMTGQCRS
RTSTDLDVDVDQPKEEKKECYYNLNDASLCDNVLAPNVTKQECCCTSGAGWGDNCEIFPCPVLGTAEFTE
MCPKGKGFVPAGESSSEAGGENYKDADECLLFGQEICKNGFCLNTRPGYECYCKQGTYYDPVKLQCFDMD
ECQDPSSCIDGQCVNTEGSYNCFCTHPMVLDASEKRCIRPAESNEQIEETDVYQDLCWEHLSDEYVCSRP
LVGKQTTYTECCCLYGEAWGMQCALCPLKDSDDYAQLCNIPVTGRRQPYGRDALVDFSEQYTPEADPYFI
QDRFLNSFEELQAEECGILNGCENGRCVRVQEGYTCDCFDGYHLDTAKMTCVDVNECDELNNRMSLCKNA
KCINTDGSYKCLCLPGYVPSDKPNYCTPLNTALNLEKDSDLE

TRTRPLE - GFP Tag - V

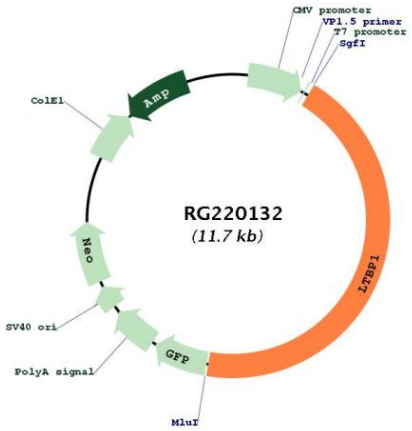
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_206943
ORF Size:	5166 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_206943.1, NP_996826.1
RefSeq Size:	6148 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
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 RG220132