

Product datasheet for **RG218088**

LTBP1 (NM_000627) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LTBP1 (NM_000627) 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:	>RG218088 representing NM_000627 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATACTAAGCTGATGTGTTGTTGTTCTTTTTCTCCCTGCCTCCGCTCCTAGTGAGTAACCACACTG
GCCGCATCAAGGTGGTCTTTACTCCGAGCATCTGTAAAGTGACCTGCACCAAGGGCAGCTGTGAGAACAG
CTGTGAGAAGGGGAACACCACACTCTCATTAGTGAGAATGGTCATGCTGCCGACCCCTGACGGCCACG
AACTCCGAGTGGTAATTTGCCATCTCCATGTATGAATGGTGGCCAGTGCAGTTCAAGGGACAAATGTC
AGTGCCCTCAAATTTACAGGAAAACCTTTGTCAGATCCCAGTCCATGGTCCAGCGTGCCTAAACTTTA
TCAGCATTCCCAGCAGCCAGGCAAGGCGTTGGGGACGCATGTCATCCATTCAACACATACCTTGCCTCTG
ACCGTGACTAGCCAGCAAGGAGTCAAAGTGAAATTTCTCCTAACATAGTCAATATCCATGTGAAACATC
CTCCTGAAGCTTCCGTCCAGATACATCAGGTTTCAAGAATTGATGGCCCAACAGGCCAGAAGACAAAAGA
AGCTCAACCAGGCCAATCCCAAGTCTCGTACCAAGGGCTTCTGTCCAGAAGACCCAGACCATACATTCC
ACATACTCCCACCAGCAGGTCACTCCTCACGTCTACCCCGTGGCTGCTAAGACACAGCTTGGCCGGTGT
TCCAGGAAACCATTGGGTACAGTGTGGCAAAGCGCTCCCTGGCCTTCAAAGCAAGAGGACTGCTGTGG
AACTGTGGGTACCTCCTGGGCTTTAACAAATGCCAGAAATGCCCAAGAAACCATTATCATGGATAC
AACCAAATGATGGAATGCCTACCGGTTATAAGCGGGTTAACAACACCTTTTGCCAAGATATTAATGAAT
GTCAGCTACAAGGTGATGCCCTAATGGTGAGTGTGTAATACCATGGGCAGCTATCGATGTACCTGCAA
AATAGGATTTGGCCGGATCCTACCTTTTCAAGTTGTGTTCTCTGATCCCCCTGTGATCTCGGAAGAGAAA
GGGCCCTGTTACCGACTTGTGAGTCTGGAAGACAGTGTATGCACCCTCTGTCTGTTACCTCACCAGC
AGCTCTGCTGTTGAGTGTGGCAAGGCTGGGGCCACACTGTGAGAAATGTCCCTTCCAGGCACAGC
TGCTTTTAAGGAAATCTGCTCGTGGTGAATGGTTATACGGTTTCTGGCGTTCATAGACGCGCCAATC
CATCACCATGTAGGTAAGGACCTGTATTTGTCAAGCCAAAGAACTCAACCTGTTGCTAAAAGTACTC
ATCCTCCACCTCTCCCAGCCAAGGAAGACCCAGTGGAGGCCCTGACCTTCTCCGGGAACACGGGCCAGG
AGTGGCGGAGCCAGAAGTGGCAACTGCACCCCTGAAAAGGAAATACCTTCATTGGATCAAGAGAAAACC
AAACTTGAGCCTGGTCAACCCAGCTGTCTCAGGCATTTCCACTATTTCATCTGCATCCACAGTTTCCAG
TAGTGATTGAAAAACATCACCTCCTGTGCCTGTTGAAGTAGCTCCTGAAGCTTCTACGTCTAGTGCCAG



[View online »](#)

CCAAGTGATTGCTCCTACTCAAGTGACAGAAATCAATGAATGACTGTGAACCCTGATATCTGTGGAGCA
GGACACTGCATTAACCTACCAGTGAGATATACCTGTATATGCTACGAGGGCTACAGGTTCACTGAACAAC
AGAGGAAATGTGTGGATATTGATGAGTGTACTCAGGTCCAACACCTCTGCTCCCAGGGCCGCTGTGAAAA
CACCGAGGGAAGTTTCTGTGCAATTTGCCAGCAGGATTTATGGCCAGTGAGGAGGGTACTAACTGCATA
GATGTTGACGAATGCCTGAGGCCGGACGCTGTGGGGAGGGGCACTGTGTCAATACTGTGGGGCCTTCC
GGTGTGAATACTGTGACAGCGGGTACCCGATGACTCAGAGAGGCCGTTGTGAGGATATTGATGAATGTTT
GAATCCAAGCACTTGTCCAGATGAGCAGTGTGTGAATTCCTGGATCTTACCAGTGCCTCCCTGCACA
GAAGGATCCGAGGCTGGAATGGACAGTGCCTTGATGTGGACGAGTGCCTGGAACCAACGCTCTCGCCAA
ATGGTGATTGTTCCAACCTTGAAGGCTCCTACATGTGTTTATGCCACAAAAGGCTATACCCGGACTCCGGA
CCACAAGCACTGTAGAGATATTGATGAATGTCAGCAAGGGAATCTATGTGTAAACGGGCAGTGCAAAAAT
ACCGAGGGCTCCTCAGGTGCACCTGTGGACAGGGGTACCAGCTGTGCGCAGCTAAAGACCAGTGTGAAG
ACATTGATGAATGCCAGCACCGTCATCTCTGTGCTCATGGGCAGTGCAGGAACACTGAGGGCTCTTTTCA
ATGTGTGTGTGACCAGGGTTACAGAGCATCTGGGCTTGGAGACCACTGTGAAGATATCAATGAATGCTTG
GAGGACAAGAGTGTGGCCAGAGAGGACTGCATTAATACTGCAGGGTCTATGATTGACTTGTCCGG
ATGGATTTGAGTGTGACAATAAATCATGTCAAGATATTAATGAATGTGAACATCCAGGGCTCTGTGG
TCCGCAAGGGGAGTGCCTAAACACAGAGGGTCTTCCATTGTGTCTGCCAGCAGGGTTTCTCAATCTCT
GCAGATGGCCGTACGTGTGAAGATATTGATGAATGTGTAACAACACTGTTTGTGACAGTACCGGTTTT
GTGACAATACAGCTGGCTCCTCCGCTGCCTCTGTTATCAGGGCTTTCAAGCCCCACAGGATGGGCAAGG
GTGTGTGGATGTGAATGAATGTGAAGTGTGCTCAGTGGGGTGTGTGGTGAAGCCTTCTGTGAAAACGTGGAA
GGGTCTTCTGTGCGTGTGTGCTGATGAAAACCAAGAGTACAGCCCCATGACTGGGCAGTGCCTGCTCC
GGACCTCCACAGATTTAGATGTAGATGTAGATCAACCCAAAGAAGAAAAGAAAGAAATGCTACTATAATCT
CAATGACGCCAGTCTCTGTGATAATGTGTTGGCCCCAATGTACGAAACAAGAATGCTGCTGTACATCA
GGCGCGGATGGGAGATAAATGCGAAATCTTCCCCTGCCCGTCTTGGGAACACTGCTGATTCACTGAAA
TGTGTCCCAAAGGAAAGGTTTTGTGCCTGTGGAGAATCATCTTCTGAAGCTGGTGGTGAAGACTATAA
AGATGCAGATGAATGCCTACTTTTTGGACAAGAAATCTGCAAAAATGTTTTCTGTTTGAACACTCGGCT
GGGTATGAATGCTACTGTAAGCAAGGGACGTAATGATCCTGTGAAACTGCAGTGTCTTGTATGGATG
AATGTCAAGACCCAGTAGTTGTATTGATGGCCAGTGTGTTAATACAGAGGGCTCTTACAACCTGCTTCTG
TACTCACCCCATGGTCTGGATGCGTCAGAAAAAAGATGTATACGACCGGCTGAGTCAAACGAACAATA
GAAGAACTGATGTCTACCAAGATTTGTGCTGGGAACATCTGAGTGTGAATACGTGTGTAGCCGGCCTC
TTGTGGCAAGCAGACAACGTACACTGAGTGTGCTGTCTGTATGGAGAGGCTGGGCATGCAGTGTGC
CCTCTGCCCCCTGAAGGATTCAGATGACTATGCTCAGCTGTGTAACATCCCCTGACGGGACGCCGGCAG
CCATATGGACGGGACGCCTTGGTTGACTTCAGTGAACAGTATACTCCAGAAGCCGATCCCTACTTCAATCC
AAGACCGTTTTCTAAATAGCTTTGAGGAGTTACAGGCTGAGGAATGCGGCATCCTCAATGGATGTGAAAA
TGGTGCCTGTGTGAGGGTCCAGGAAGGTTACACCTGCGATTGCTTTGATGGGTATCACTTGGATACGGCC
AAGATGACCTGTGTGATGTAATGAATGCGATGAGTTGAACAACCGGATGTCTCTCTGCAAGAATGCCA
AGTGCAATTAACCCGATGGTTCCTACAAGTGTGTTGTGCTGCCAGGCTACGTGCCTCTGACAAGCCAAA
CTACTGCACTCCGTTGAATACCGCCTTGAATTTAGAGAAAGACAGTGACCTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218088 representing NM_000627
 Red=Cloning site Green=Tags(s)

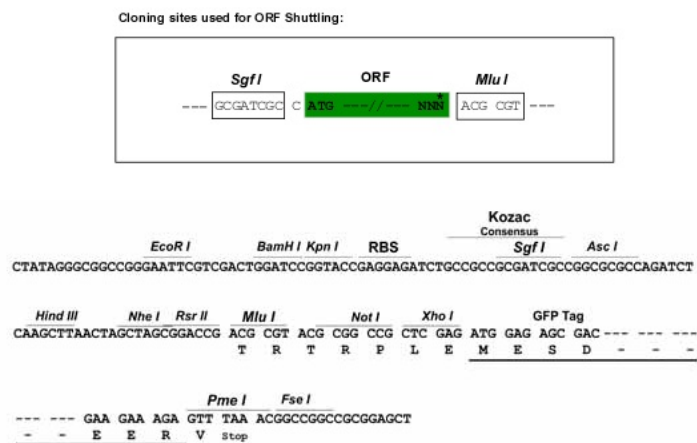
```

MDTKLMCLLFFFSLPPLLVSNHTGRIKVVFTPSICKVVTCTKGSCQNSCEKGNTTTLISENGHAADTLTAT
NFRVVIICHLPCMNGGQCSSRDKCQCPPNFTGKLCQIPVHGASVPKLYQHSQQPGKALGTHVIHSTHTLPL
TVTSQQGVKVKFPPNIVNIHVKHPPPEASVQIHQVSRIDGPTGQKTKEAQPGQSQVSYQGLPVQKTQTIHS
TYSHQQVIPHVYPVAAKTQLGRCFQETIGSQCGKALPGLSKQEDCCGTVGTSWGFKKCCQKCPKPSYHGY
NQMMCECLPGYKRVNNTFCQDINECQLQGVCPNGECLNTMGSYRCTCKIGFGPDTFSSCVDPDPVISEEK
GPCYRLVSSGRQCMHPLSVHLTKQLCCCSVGKAWGPHCEKCLPGTAAFKEICPGGMGYTVSGVHRRRPI
HHHVKGKPVFVKPKNTQPVAKSTHPPPLPAKEEPVEALTF SREHGPVGAEPVATAPPEKEIPSLDQEK
KLEPGQPQLSPGISTIHLPQFPVIEKTSPPVPVEVAPEASTSSASQVIAPTQVTEINECTVNPDICGA
GHCINLPVRYTCICYEGYRFSEQQRKCDIDECTQVQHLCSQGRCENTEGSFLCICPAGFMASEEGTNCI
DVDECLRPDVCGEHGCVNTVGAFRCEYCDSGYRMTQRGRCEDIDECLNPSTCPDEQCVNSPGSYQVCPCT
EGFRGWNGQCLDVDECLPNVCANGDCSNLEGSYMC SCHKGYTRTPDHKHC RDIDE CQQGNLCVNGQCKN
TEGSFRCTCGQGYQL SAAKDQCED IDECQHRHLCAHGQCRNTEGSFQCVCDQGYRASGLGDHCE DINECL
EDKSVCQRGDCINTAGSYDCTCPDGFQLDDNKTCQDINECEHPGLCGPQGECLNTEGSFHVCQQGFSIS
ADGRTCEDIDE CVNNTVCD SHGFC DNTAGSFRCLCYQGFQAPQDGGQCV DVNECELLSGVCGEAFENVE
GSFLCVCADENQEYSPMTGQCRSRTSTDLDVDVDQPKKEEKECY YNLNDASLCDNVLAPNVTKQECCTS
GAGWGDNCEIFPCPVLTAEFTMCPKGGKGFVPAGESSEAGGENYKDADECLLFQGEICKNGFCLNTRP
GYECYCKQGTYYDPVKLQCFDMDECQDPSSCIDGQCVNTEGSYNCFCTHPMVLDASEKRCIRPAESNEQI
EETDVYQDL CWEHL SDEYVCSRPLVGKQTTYTECCCLYGEAWGMQCALCPLKDSDDYAQLCNI PVTGRRQ
PYGRDALVDFSEQYTP EADPYF IQDRFLNSFEELQAECEGILNGCENGRVVRVQEGYTCDCFDGYHLDTA
KMTCDVNECEDELNNRMSLCKNAKCINTDGSYKCLCLPGYVPSDKPNYCTPLNTALNLEKDSLE
  
```

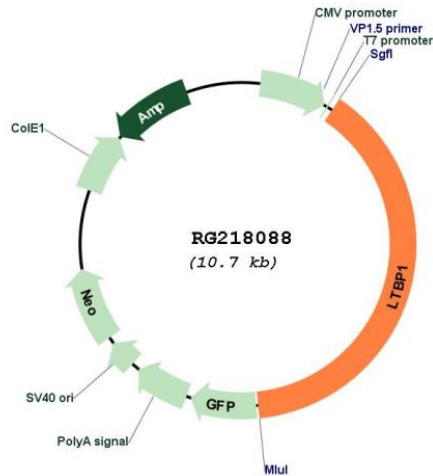
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_000627

ORF Size: 4185 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_000627.3 , NP_000618.3
RefSeq Size:	5308 bp
RefSeq ORF:	4188 bp
Locus ID:	4052
UniProt ID:	Q14766
Cytogenetics:	2p22.3
Domains:	EGF_CA, TB, EGF, EGF
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	TGF-beta signaling pathway
Gene Summary:	<p>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]</p>