

Product datasheet for **RG224230**

LTBP4 (NM_001042544) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LTBP4 (NM_001042544) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LTBP4
Synonyms: ARCL1C; LTBP-4; LTBP4L; LTBP4S
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224230 representing NM_001042544
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCCGAGGCCTGGCACCAGCGGCCGCCGCCCTCTGCTGGTGTGTTGCTGCCGCTCTTCGCAGCCG
CCACCTCCGCGCCAGCCCCAGCCCCAGCCCCAGCCAGGTCGTCGAGGTCGCCGGGGTCCCCAGCCGCC
GGCCAGCGTTGCTGTTTGTGCTGCTGCCCGGCCAGACGCTAGGAGGAGCCGTCATCCGAGCCTTC
TGCAGGGTCCGAAGCTGCCAGCCAAAAAGTGTGCAGGCCCCAGCGGTGCTGAACCCAGTGCCTGCAG
TGCCAGTCCCAGCCCCAGCGTGAGGAAGAGACAGGTGTCCCTCAACTGGCAGCCACTGACGCTCCAGGA
GGCCAGAGCTCTACTGAAGCGCGCGGCCCGGGGCCAGGGGGCCGGGGACTACTGAGAAGGAGGCC
CCACAGCGTGCCCCGCTGGCAAGGCCCGGTCCTGTGTCCCTTGATCTGTACAAATGGCGGTGTGTGCG
TGAAGCCTGACCGCTGCCTCTGTCCCCGGACTTCGCTGGCAAGTTCTGCCAGTTGCACTCCTCGGGCGC
CCGGCCCCCGGCCCGGCTGTACCAGGCCTCACCCGCTCCGTGTACACTATGCCACTGGCCAACCACCGC
GACGACGAGCACGGCGTGGCATCTATGGTGAGCGTCCACGTGGAGCACCCGAGGAGCGTCCGTGGTGG
TGCACCAGGTGGAGCGTGTCTGGCCCTGGGAGGAGCGGACGCTGAGGCGGTGGCGCGGGCGGAAGC
GGCGCGCGGGCGGAGGGCGGACGCGCTACACGGTGTGGCACAGAGCGCGCCGGGAGGACGGCTAC
TCAGATGCCTCGGGCTTCGGTTACTGCTTTCGGGAGCTGCGCGGAGGCGAATGCGCTCCCCGCTGCCCG
GGCTCCGAGCGCAGGAGTCTGCTGCCAGGGGGCCGCTTGGCCTGGGGGTTACGACTGTCAGCTGTG
CTCCGAGCGCCTGGGAACTCCGAAAGAGTGAGCGCCCCAGATGGACCTTGTCACCCGGCTTTGAAAGA
GTTAATGGGTCTGCGAAGATGTGGATGAGTGCAGACTGGCGGGCTGCCAGCACGGCGAGTGTGCAA
ACACGCGCGGGGTACACGTGTGTGCCCCGACGGCTTCTGCTCGACTCGTCCCGCAGCAGTGCAT
CTCCCAACACGTGATCTCAGAGGCCAAAGGCCCTGCTCCGCGTGTCCGCGACGGCGGCTGTTGCTG
CCCATTCTGCGGAACATCACTAACAGATCTGCTGCTGCAGCCGCTAGGCAAGGCTGGGGCCGGGGCT
GCCAGCTCTGCCACCTTCGGCTCAGAGGGTTCCGGGAGATCTGCCCGGCTGGTCTGTTACCTACTA
CTCGGCCTCCGACTCCGCTACAACACCAGACCCTGGGCCAGGACCCCGAGTGTCACTACGCCAG



[View online »](#)

CCTCGTACCCTGCCAGCCACCTCTCGGCCATCTGCAGGCTTTCTGCCACCCATCGCCTGGAGCCCCGGC
 CTGAACCCCGGCCGATCCCCGGCCCGCCCTGAGCTTCCCTTGCCAGCATCCCTGCCTGGACTGGTCC
 TGAGATTCTGAATCAGGTCCCTCCTCCGGCATGTGTACGCGAACCCCCAGGTCTGCGGCCAGGACGC
 TGCATTTCCCGGCCAGCGGCTACACCTGCGCTTGCGACTCTGGCTTCCGGCTCAGCCCCAGGGCACCC
 GATGCATTGATGTGGACGAATGTGCGCCGTGCCCGCCCTGTGCTCCCGGGCCTGCGAGAACTCACC
 AGGCAGTTCCGCTGCGTGTGCGGCCGGGCTTCCGAGCCGCCACGGGCTGCGGAATGCCTGGATGTG
 GACGATGCCACCGCGTCCCGCCGCTGTGACCTCGGGCGCTGCGAGAACACCGCAGGCAGCTTCCCTGT
 GCGTGTGCCCGCGGGTACCAGGCTGCACCGCAGGAGCCAGCTGCCAGGATGTGGATGAATGCACCCA
 GAGCCCAGGCCTGTGTGCCGAGGGCCTGCAAGAACCCTGCCTGGCTCTTTCCGCTGTGTTTGCCCGCT
 GGCTTCCGGGGCTCGGCGTGTGAAGAGGATGTGGATGAGTGTGCCAGGAGCCGCCCCCTGTGGGCCCG
 GCCGCTGTGACAACACGGCAGGCTCCTTTACTGTGCCTGCCCTGCTGGCTTCCGCTCCCGAGGGCCCG
 GGCCCCGTGCAAGATGTGGATGAGTGTGCCGAAGCCCCACCTGCACCTACGGCCGGTGTGAGAAC
 ACAGAAGGCAGCTTCCAGTGTCTGCCCCATGGGCTTCAACCCAACACTGCTGGCTCCGAGTGCAGG
 ATGTGGATGAGTGTGAGAACCACCTGCATGCCCTGGCAGGAGTGTGTAACCTGCCCCGCTCCTTCCA
 GTGCAGGACCTGTCTTCTGCCACCACCTGCACCGTGGCAGATGCACTGATGTGGACGAATGCAGTTCC
 GGTGCCCTCCCTGTGGTCCCCACGGCCACTGACTAACACCCGAAGGCTCCTTCCGCTGCAGCTGCGCGC
 CAGGCTACCGGGCGCCGTGCGGTGCGCCGGGCCCTGCGCAGACGTGAACGAGTGCCTGGAGGGCGATT
 CTGCTTCCCTCACGGCAGTGCCTCAACACTGACGGCTCCTTTGCCTGTACTTGTGCCCTGGTACCGA
 CCCGGACCCCGGGAGCCTTTGCCTCGACGTTGACGAGTGCAGCGAGGAGGACCTTTGCCAGAGCGGCA
 TCTGTACCAACACCGACGGCTCCTTCGAGTGCATCTGTCTCCGGACACCGCGCTGGCCCGGACCTCGC
 CTCCTGCCTCGACGTGGACGAATGTGCGAGCGAGGCCAGCCCTGTGCGGGTGCAGCGCTGTGAGAAC
 TCTCCCGGCTCTACCGCTGTGTCGGGACTGCGATCCTGGGTACCACCGGGGCCCGAGGGCACCTGTG
 ACGATGTGGATGAGTGCCAAGAATATGGTCCCGAGATTTGTGGAGCCAGCGTTGTGAGAACCACCTGG
 CTCTACCGCTGCACACCAGCCTGTGACCTGGCTATCAGCCCACGCCAGGGGGCCGATGCCAGGATGTG
 GACGAATGCCGGAACCGTCTTCTGCGGTGCCACGCGGTGTGCCAGAACCCTGCCCGGCTCCTTCCAGT
 GCCTCTGTGACCAGGTTACGAGGGGACGCGGATGGGCGTCACTGCGTGGATGTGAACGAGTGTAAAC
 ACTACAGGGTGTATGTGGAGTGCCTGTGTGAAAATGTGCAAGGCTCCTTCCCTGTGTCTGCCCAAC
 AGCCCGGAAGAGTTTACCCCATGACTGGACGCTGTGTTCCCCACGAACCTTCTGCTGGCAGGTTCCAG
 GCTCGCAGCCCCAGGCACCTGTAGCCCCGTTCTGCCCGCAGGCCACCTCCGCCACCCCTGCCCGCCG
 ACCCAGCACACCTAGGCAGGGCCCTGTGGGAGTGGGCGCCGGGAGTGTACTTTGACACAGCGGCCCG
 GATGCATGTGACAACATCCTGGCTCGGAATGTGACATGGCAGGAGTGTGCTGTACTGTGGTGGAGGCT
 GGGGCAGCGGCTGCCGATCCAGCAGTGCCTGGCACCAGACAGCTGAGTACCAGTCAATGTGCCCTCA
 CGGCCGGGGCTACCTGGCGCCCAGTGGAGACCTGAGCCTCCGGAGAGACGTGGACGAATGTGAGCTTTC
 CGAGACCAGGTGTGCAAGAGTGGCGTGTGTGTAACACGGCCCCGGGCTACTCATGCTATTGCGACAACG
 GCTACTACTACCACACACAGCGGCTGGAGTGCATCGACAATGACGAGTGCGCCGATGAGGAACCGGCCTG
 TGAGGGCGGCCGCTGTGTCAACACTGTGGGCTCTTACTACTGTACCTGCGAGCCCCACTGGTGTGGAT
 GGCTCGCAGCGCCGCTGCGTCTCAACGAGAGCCAGAGCCTCGATGACAATCTGGGAGTGTGCTGGCAGG
 AAGTGGGGGTGACCTCGTGTGACGCCACCTCGGCTGGACCGTACAGCCACTACACAGAGTGTGCTG
 CCTGTATGGAGAGGCTGGGGCATGGACTGCGCCCTCTGCCCTGCGCAGGACTCAGATGACTTCGAGGCC
 CTGTGCAATGTGCTACGCCCCCGCATATAGCCCCCGGACCCAGGTGGCTTTGACTCCCTACGAGT
 ACGGCCAGACTTAGGTCCACCTTACCAGGCCTCCCATATGGGCTGAGTTGTACCCACCACCTGCGCT
 ACCCTACGACCCCTACCCACCGCCACTGGGCCCTTCGCCCGCCGGGAGGCTCCTTATGGGGACCCCGC
 TTCGACATGCCAGACTTTGAGGACGATGGTGGCCCTATGGCGAATCTGAGGCTCCTGCGCCACCTGGCC
 CGGGCACCCGCTGGCCCTATCGTCCCGGGACACCCGCCGCTCCTTCCAGAGCCCGAGGAGCCTCTGA
 AGGTGGAAGCTATGCTGGTTCCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGGAGGAGTGCGGGATCCTG
 GACGGCTGCACCAACGGCCGCTGCGTGCCTGCCGTAAGGCTTACCTGCCGTTGCTTCGACGGCTACC
 GCCTGGACATGACCCGATGGCCTGCGTTGACATCAACGAGTGTGATGAGGCCGAGGCTGCCTCCCGCT
 GTGCGTCAACGCGGTTGCCTCAACACGGATGGCTCCTTCCGCTGCATCTGCCCGCCGGGATTGCAACC
 ACGCACCAGCCGACCACTGTGCGCCCGCAGGCCCGGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG224230 representing NM_001042544
 Red=Cloning site Green=Tags(s)

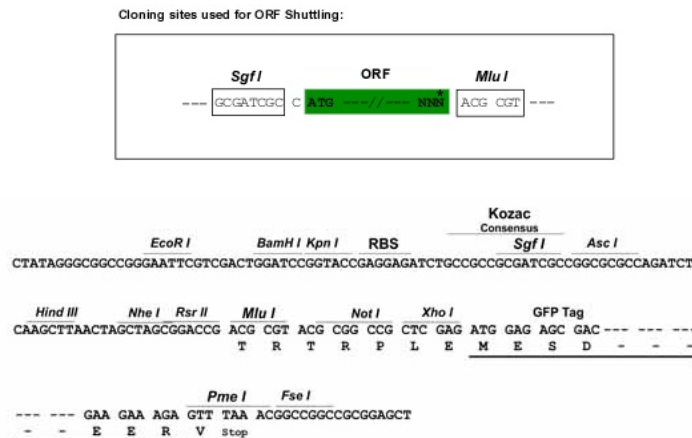
MPPRGTSGRRLLLLVLPLFAAATSAASPSQVVEVPGVPSRPASVAVCRCCPGQTSRRSRCIRAF
 CRVRSCQPKKAGPQRCLNPVPAVPSVSRKRQVSLNWQPLTLQEARALLKRRRPRGPGGRLLRRRP
 PQRAPAGKAPVLCPLICHNGGVCVKPDRCLCPPDFAGKFCQLHSSGARPPAPAVPLTRSVYTMPLANHR
 DDEHGVAHSVHVEHPQEASVVVHQVERVSGPWEEADAEAVARAEAAAAPYTTLAQSAPREDGY
 SDASGFGYCFRELRGGECASPLPGLRTQEVCCRAGLAWGVHDCQLCSERLGNSESVSAPDGPCPTGFER
 VNGSCEDVDECATGGRCQHGECANTRGGYTCVCPDGFLLDSSRSCISQHVISEAKGPCFRVLRDGGCSL
 PILRNITKQICCCSRVKGAWGRGQCLPPFGSEGFREICPAGPGYHYSADLRYNTRPLGQEPFRVLSLQ
 PRTLPASTRPSAGFLPTHRLPRPEPRDPRPGPELPLPSIPAWTGPEIPESGSSGMCQRNPQVCGPGR
 CISRPSGYTCACDSGFRLLSPQGRTRCIDVDECRRVPPPCAPGRCEVSGFRVCGPGFRAGPRAECLDV
 DECHRVPCCDLGRCENTPGSFLCVCPAGYQAAPHGASCQDVDECTQSPGLCGRGACKNLPGSFRVCPA
 GFRGSACEEDVDECAQEPCCGPGRCNTAGSFHCACAGFRSRGPGAPCQDVDECARSPPPCTYGRCEV
 TEGSFQCVCPMGFQPNAGSECEDVDECENHLACPGQECVNSPGSFQCRTPSGHHLHRGRCTDVDECSS
 GAPPCCPHGHCTNTEGSFRCSAPGYRAPSGRPGCADVNECLEGDFCFPHGECLNTDGSFACTCAPGYR
 PGPARGASCLDVDECEEDLQSGICTNTDGSFECICPPGHRAGPDLASCLDVDECRRERGPALCGSQRCEN
 SPGSYRCVRDCDPGYHAGPEGTCDVDECEQYGPETCGAQRCEVTPGSYRCPACDPGYQTPGGGCQDV
 DECRNRSFCGAHAVCQNLPGSFQCLCDQGYEGARDGRHCVVNECETLQGVCGAALCENVEGSFLVCPN
 SPEEFDPMTGRCVPPRTSAGTFPGSQPQAPASVLPARPPPPPLPRRSTPRQGPVSGRRECYFDTAAP
 DACDNILARNVTWQECCTVGEVWGSGRICQCPGTETAEYQSLCPHGRGYLAPSGDLSLRDQVDECQLF
 RDQVCKSGVCVNTAPGYSCYCSNGYYYHTQRLECIDNDECADEEPAEGGRCVNTVGSYHCTCEPPLVLD
 GSQRRCVSNESQSLDDNLGVCWQEVGADLVC SHPRLDRQATYTECCCLYGEAWGMDCALCPAQSDDDFEA
 LCNVLRPPAYSPPRPGFGLPYEYGPDLGPPYQGLPYGPELYPPALPYDPYPPPPGPFARREAPYGAPR
 FMDPDFEDDGGPYGESEAPAPPGPGRWYRSDTRRSFPEPEEPEEGGSYAGSLAEPYEELEAEECGIL
 DGCTNGRCVRVPEGFTCRCFDGYRLDMTRMACVDINECDEAEAASPLCVNARCLNTDGSFRICRPGFAP
 THQPHHCAPARPA

TRTRPLE - GFP Tag - V

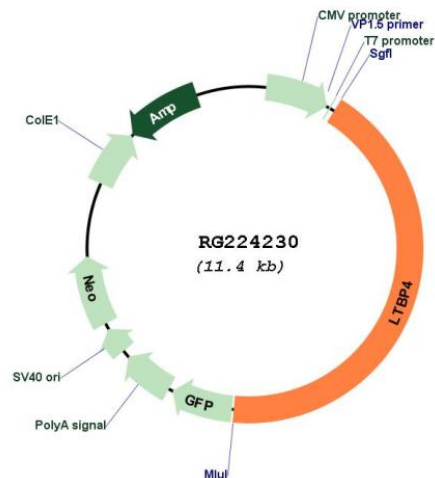
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001042544

ORF Size: 4872 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_001042544.1](#), [NP_001036009.1](#)

RefSeq Size: 5163 bp

RefSeq ORF: 4875 bp

Locus ID: 8425

UniProt ID: [Q8N2S1](#)

Cytogenetics: 19q13.2

Protein Families: Druggable Genome

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]