

Product datasheet for **SC303350**

LTBP4 (NM_003573) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: LTBP4 (NM_003573) Human Untagged Clone
Tag: Tag Free
Symbol: LTBP4
Synonyms: ARCL1C; LTBP-4; LTBP4L; LTBP4S
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003573 edited
 ATGGGAGACGTAAGCGTTGCTGTTTGTGCTGCTGCCCGGCCAGACGTCTAGGAGGA
 GCCGCTGCATCCGAGTCCCTGGCTGTCTCCGAAGCCTTCTGCAGGGTCCGAAGCTGCCAG
 CCCAAAAAGTGTGCAGGCCCCAGCGGTGCCTGAACCCAGTGCCTGCAGTGCCAGTCCC
 AGCCCCAGCGTGAGGAAGAGACAGGTGTCCCTCAACTGGCAGCCACTGACGCTCCAGGAG
 GCCAGAGCTCTACTGAAGCGGCGGCCCCGGGGCCAGGGGGCCGGGGACTACTGAGA
 AGGAGGCCCCACAGCGTGCCCCGCTGGCAAGGCCCGGTCTGTGTCCTTGATCTGT
 CACAATGGCGGTGTGTGCGTGAAGCCTGACCGCTGCCTCTGTCCCCGGACTTCGCTGGC
 AAGTTCTGCCAGTTGCACTCCTCGGGCGCCCGCCCCGGCCCCGGCTGTACCAGGCCTC
 ACCCGCTCCGTGACACTATGCCACTGGCAACCACCGCAGCAGCAGCAGCGCGTGGA
 TCTATGGTGAGCGTCCACGTGGAGCACCCGAGGAGCGTCCGGTGGTGGTGCACAGGTG
 GAGCGTGTGTCTGGCCCTTGGGAGGAGCGGACGCTGAGCGGTGGCGCGGGCGGAAGCG
 GCGGCGCGGGCGGAGGCGGCAGCGCCCTACACGGTGTGGCACAGAGCGCGCCGGGAG
 GACGGCTACTCAGATGCCTCGGGCTTCGGTTACTGCTTTCGGGAGCTGCGCGGAGGCCAA
 TGCGCGTCCCCGCTGCCCGGGCTCCGGACGCAGGAGGTCTGCTGCCGAGGGGCGCGCTT
 GCCTGGGGCGTTCACGACTGTGACTGTGCTCCGAGCGCTGGGAACTCCGAAAGAGTG
 AGCGCCCCAGATGGACCTTGCCAACCGGCTTTGAAAGAGTTAATGGGTCCTGCGAAGAT
 GTGGATGAGTGCAGGACTGGCGGGCGCTGCCAGCACGGCGAGTGTGAAACACGCGCGGC
 GGTACACGTGTGTGCCCCGACGGCTTCTGCTCGACTGCTCCCGCAGCAGCTGCATC
 TCCCAACACGTGATCTCAGAGGCCAAAGGCCCTGCTTCCGCGTCTCCGCGACGCGGC
 TGTTTCGCTGCCATTCTGCGGAACATCACTAAACAGATCTGCTGCTGCAGCCGCTAGGC
 AAGGCCTGGGGCCGGGGCTGCCAGCTCTGCCACCCCTTCGGCTCAGAGGGTTTCCGGGAG
 ATCTGCCCGGCTGGTCTGGTTACCACTACTCGGCCTCCGACCTCCGCTACAACACCAGA
 CCCCTGGGCCAGGAGCCACCCGAGTGTCACTCAGCCAGCCTCGTACCCTGCCAGCCACC
 TCTCGGCATCTGCAGGCTTTCTGCCACCCATCGCCTGGAGCCCCGGCCTGAACCCCGG
 CCCGATCCCCGGCCCGCCCTGAGCTTCCCTTGCCAGCATCCCTGCCTGGACTGGTCTCT
 GAGATTCTGAATCAGGTCCTCCTCCGGCATGTGTCAGCGCAACCCCCAGGTCTGCGGC



[View online »](#)

CCAGGACGCTGCATTTCCCGGCCAGCGGCTACACCTGCGCTTGGACTCTGGCTTCCGG
 CTCAGCCCCAGGGCACCCGATGCATTGATGTGGACGAATGTGCGCGGTGCCCCGCC
 TGTGCTCCCGGGCGCTGCGAGAACTCACCAGGCAGCTTCCGCTGCGTGTGCGGCCGGG
 TTCCGAGCCGGCCACGGGCTGCGGAATGCCTGGATGTGGACGAGTGCCACCGGTGCCG
 CCGCGTGTGACCTCGGGCGCTGCGAGAACACGCCAGGCAGCTTCTGTGCGTGTGCCCC
 GCCGGGTACCAGGCTGCACCGCACGGAGCCAGTGCCAGGATGTGGATGAATGCACCCAG
 AGCCACGGCTGTGTGGCCGAGGGGCTGCAAGAACCTGCCTGGCTCTTCCGCTGTGT
 TGCCCGGCTGGCTTCCGGGGCTCGGCGTGTGAAGAGGATGTGGATGAGTGTGCCAGGAG
 CCGCCGCCCTGTGGGCCCGGCGCTGTGACAACACGGCAGGCTCCTTCACTGTGCTGC
 CCTGTGGCTTCCGCTCCCGAGGGCCCGGGGCCCTGCCAAGATGTGGATGAGTGTGCC
 CGAAGCCCCCACCTGCACCTACGGCCGGTGTGAGAACACAGAAGGCAGCTTCCAGTGT
 GTCTGCCCATGGGCTTCAACCCAACACTGCTGGCTCCGAGTGCAGGATGTGGATGAG
 TGTGAGAACACCTCGCATGCCCTGGGCAGGAGTGTGTAACTCGCCCGGCTCCTCCAG
 TGCAGGACCTGTCTTCTGGCCACCACCTGCACCGTGGCAGATGCACTGATGTGGACGAA
 TGCAGTTCGGGTGCCCTCCCTGTGGTCCCACGGCCACTGCACTAACACCGAAGGCTCC
 TTCCGCTGCAGCTGCGCGCCAGGCTACCGGGCGCGTCCGGTCCGCCCGGCCCTGCGCA
 GACGTGAACGAGTGCCTGGAGGGCGATTCTGCTTCCCTCACGGCGAGTGCCCAACACT
 GACGGCTCCTTTCGCTGTACTTGTGCCCTGGCTACCGACCCGGACCCCGCGGAGCCTCT
 TGCTCGACGTTGACGAGTGCAGCGAGGAGGACCTTTCAGAGCGGCATCTGTACCAAC
 ACCGACGGCTCCTTCGAGTGCATCTGTCTCCGGACACCGCGCTGGCCCGGACCTCGCC
 TCCTGCCTCGACGTGGACGAATGTGCGAGCGAGGCCAGCCCTGTGCGGGTCCGACGCG
 TGTGAGAACTCTCCCGCTCCTACCGCTGTGTCCGGGACTGCGATCCTGGGTACCACGG
 GGCCCCGAGGGCACCTGTGACGATGTGGATGAGTGCCAGAATAATGGTCCCGAGATTTGT
 GGAGCCAGCGTTGTGAGAACACCCCTGGCTCCTACCGCTGCACACCGCCTGTGACCT
 GGCTATACGCCACGCCAGGGGGCGGATGCCAGGATGTGGACGAATGCCGAACCGGTCC
 TTCTGCGGTGCCACGCCGTGTGCCAGAACCTGCCCGGCTCCTTCCAGTGCCTCTGTGAC
 CAGGGTTACGAGGGGGCACGGGATGGGCGTCACTGCGTGGATGTGAACGAGTGTGAAACA
 CTACAGGGTGTATGTGGAGCTGCCCTGTGTGAAAATGTGCAAGGCTCCTTCTCTGTGTC
 TGCCCCAACAGCCGGAAGAGTTTGACCCCATGACTGGACGCTGTGTTCCCCACGAACT
 TCTGCTGGCACGTTCCAGGCTCGCAGCCCCAGGCACCTGCTAGCCCCGTTCTGCCCGCC
 AGGCCACCTCCGCCACCCCTGCCCGGCCAGCCAGCACACCTAGGCAGGGCCCTGTGGGG
 AGTGGGCCCGGGAGTGTACTTTGACACAGCGGCCCGGATGCATGTGACAACATCCTG
 GCTCGGAATGTGACATGGCAGGAGTGTGCTGTACTGTGGGTGAGGGCTGGGGCAGCGGC
 TGCCGCATCCAGCAGTGCCCGGGCACCGAGACGCTGAGTACCAGTCAATTGTGCCCTCAC
 GGCCGGGGCTACCTGGGCCCCAGTGGAGACCTGAGCCTCCGGAGAGACGTGGACGAATGT
 CAGCTCTTCCGAGACCAGGTGTGCAAGAGTGGCGTGTGTGTAACACGGCCCCGGGCTAC
 TCATGCTATTGCAGCAACGGCTACTACTACCACACACAGCGGCTGGAGTGCATCGACAAT
 GACGATGCGCCGATGAGGAACCGGCTGTGAGGGCGGGCGCTGTGTCAACACTGTGGGC
 TCTTATCACTGTACCTGCGAGCCCCACTGGTGTGGATGGCTGCGAGCGCCGCTGCGTC
 TCCAACGAGAGCCAGAGCCTCGATGACAATCTGGGAGTGTGCTGGCAGGAAGTGGGGCT
 GACCTCGTGTGACGCCACCTCGGCTGGACCGTACGGCCACCTACACAGAGTGTGCTGC
 CTGTATGGAGAGGCTGGGGCATGGACTGCGCCCTCTGCCCTGCGCAGGACTCAGATGAC
 TTCGAGGCCCTGTGCAATGTGCTACGCCCCCGCATATAGCCCCCGGACCGAGGTGGC
 TTTGGACTCCCTACGAGTACGGCCAGACTTAGGTCCACCTTACCAGGGCTCCCATAT
 GGGCTGAGTTGTACCCACCCTGCGCTACCCTACGACCCTACCCACCGCCACCTGGG
 CCCTTCGCCCCGGGAGGCTCCTTATGGGGCACCCGCTTCGACATGCCAGACTTTGAG
 GACGATGGTGGCCCTATGGCGAATCTGAGGCTCCTGCGCCACCTGGCCCGGGCACCCGC
 TGGCCCTATCGGTCCCGGACACCCGCGCTCCTTCCCAGAGCCCGAGGAGCCTCCTGAA
 GGTGGAAGCTATGCTGGTTCCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGGAGGAGTGC
 GGGATCCTGGACGGCTGCACCAACGGCCGCTGCGTGCAGGCTCCCGAAGGCTTCACTGC
 CGTTGCTTCGACGGCTACCGCTGGACATGACCCGCATGGCTGCGTTGACATCAACGAG
 TGTGATGAGGCCGAGGCTGCCTCCCCGCTGTGCGTCAACGCGGTTGCCTCAACACGGAT

GGCTCCTTCCGCTGCATCTGCCGCCGGGATTGCGACCCACGCACCAGCCGCACCACTGT
GCGCCCGCACGGCCCCGGGCTGA

Restriction Sites:	Please inquire
ACCN:	NM_003573
Insert Size:	5100 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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_003573.1 , NP_003564.1
RefSeq Size:	5054 bp
RefSeq ORF:	5052 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]

Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) has a shorter and distinct N-terminus compared to isoform a.