

Product datasheet for **SC311429**

LTBP4 (NM_001042545) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LTBP4 (NM_001042545) Human Untagged Clone
Tag:	Tag Free
Symbol:	LTBP4
Synonyms:	ARCL1C; LTBP-4; LTBP4L; LTBP4S
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC311429 sequence for NM_001042545 edited (data generated by NextGen Sequencing)

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ATGGCGGGCGCGCTGCGGCTGCTCTGGGTGTCGCTATTGGTGTGCTGCTGGCGCAGCTAGGGCCGAGCCTG
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TGGGCGGACCGGCTCCCCTGTACCCCGACCTGCGCGCCCGCAACGCCACCAGCGTGGACAGCGGCGCT
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CTCGGGCGCCCGCCCGGGCCCGGCTGTACCAGGCTCACCCGCTCCGTGTACACTATGCCACTGGCC
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CGGTGGTGGTGCACCAGGTGGAGCGTGTGTCTGGCCCTTGGGAGGAGGCGGACGCTGAGGCGGTGGCGCG
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GAACTCACCAGGCAGCTTCCGCTGCGTGTGCGGCCCGGGCTTCCGAGCCGGCCACGGGCTGCGGAATGC
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 GCCTCCTGAAGGTGGAAGCTATGCTGGTCCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGGAGGAGTGC
 GGGATCCTGGACGGCTGACCAACGCGCCGCTGCGTGCAGTCCCCGAAGGCTTACCTGCGGTTGCTTCG
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 CTCCCCGCTGTGCGTCAACGCGGTTGCCTCAACACGGATGGCTCCTTCCGCTGCATCTGCCGCCGGGA
 TTCGACCCACGCACCAGCCGACCACTGTGCGCCGCACGGCCCCGGGCTGA

Clone variation with respect to NM_001042545.1

Restriction Sites: Please inquire
ACCN: NM_001042545
Insert Size: 5000 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:

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_001042545.1](#), [NP_001036010.1](#)

RefSeq Size: 4979 bp

RefSeq ORF: 4674 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 (3) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (c) has a shorter and distinct N-terminus compared to isoform a.