

Product datasheet for RC228669

LTBP1 (NM_001166266) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LTBP1 (NM_001166266) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LTBP1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC228669 representing NM_001166266
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC228669 representing NM_001166266
 Red=Cloning site Green=Tags(s)

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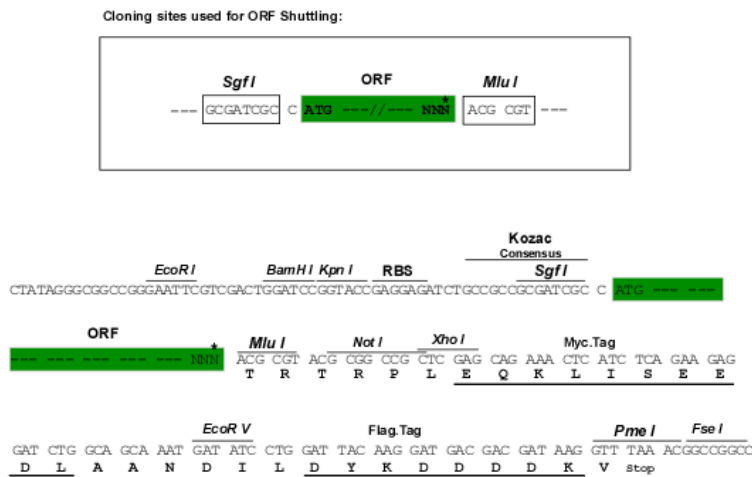
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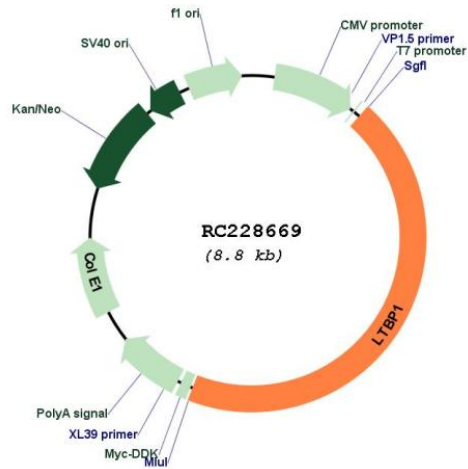
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001166266

ORF Size: 3900 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_001166266.1](#), [NP_001159738.1](#)

RefSeq ORF: 3903 bp

Locus ID: 4052

UniProt ID: [Q14766](#)

Cytogenetics: 2p22.3

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: TGF-beta signaling pathway

MW: 142.71 kDa

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]