

Product datasheet for **RG229066**

LTBP3 (NM_001164266) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LTBP3 (NM_001164266) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LTBP3
Synonyms: DASS; GPHYS3; LTBP-3; LTBP2; pp6425; STHAG6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229066 representing NM_001164266
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATGGCGCCAGTGCTCCTCGCAAACCAAGTGCCTGTGTCCCCGGACTTCACTGGGCGTTCTGCC
 AGGTGCCCGCAGGAGGAGCCGGTGGGGTACCGCGGCTCAGGCCCGGCCTGAGCAGGACAGGGGCCCT
 GTCCACAGGGGCGCTGCCGCCCTGGCTCCGAGGGCGACTCTGTGGCCAGCAAGCACGCCATCTACGCC
 GTCCAGGTGATCGCTGACCCTCCTGGGCCCGGGAGGGGCTCCTGCCAGCACGCAGCCTTCTGGTGC
 CCCTAGGCCCGGGACAGATCTCAGCAGAAGTGCAGGCCCGCCCCCGTGGTGAATGTGCGCGTCCATCA
 CCCGCCGAGGCCCTCAGTCCAGGTGCACCGCATTGAGAGCTCGAACGCCGAGAGCCAGCCCCCTCCAG
 CACCTGCTGCCGACCCCAAGCCCTCGCACCCCGGCCGCCACCCAGAAGCCCCCTGGGCGCTGCTTTC
 AGGACACTCTGCCAAGCAGCCGTGTGGCAGCAACCCCTCCCCGGCCTACCAAGCAGGAAGACTGCTG
 CGGTAGCATCGGCACTGCCTGGGGCCAGAGCAAGTGCCACAAGTGTCCCAGCTGCAGTACACAGGAGTG
 CAGAAGCCAGGGCCTGTACGTGGGAAGTGGGCGTACTGTCCCAGGGCTACAAGAGGCTTAACAGCA
 CCCACTGCCAGGACATCAACGAGTGCAGCAATGCCGGCGTGTGTGCCATGGTACTGCCTCAACAACCC
 TGGCTCCTATCGCTGTGTCTGCCACCTGGCCATAGTTTAGGCCCTCCCGTACACAGTGCATTGCAGAC
 AAACCGGAGGAGAAGAGCCTGTGTTTCCGCTGGTGAGCCCTGAGCACCAGTCCAGCACCCTGACCA
 CCCGCTGACCCGCCAGCTCTGCTGCTGCAAGTGTGCGCAAGCCCTGGGGCGCGGTGTACAGCGTGCC
 AACAGATGGCACCGCTGCGTTAAGGAGATCTGCCAGCTGGGAAGGGATACCACATTCTCACTCCAC
 CAGACGCTCACCATTCAGGGCGAGAGTACTTTTCCCTTTTCTGCACCCTGACGGGCCACCCAAGCCCC
 AGCAGCTTCCGGAGAGCCCTAGCCAGGCTCCACCCTGAGGACACAGAGGAAGAGAGGGGTGACCAC
 GGACTCACCGGTGAGTGAAGGAGGTCAGTGCAGCAGAGCCACCAACTGCCACCAGACTCCTGCCCGG
 CCCTACCCGAGCTGATCTCCCTCCCTCGCCCCGACCATGCGTGGTTCTGCCGACTTGCCTCCTT
 CCCGACGCGCTAGAGATCGCTCCCACTCAGGTACAGAGACTGATGAGTCCGACTGAACCAGAACAT
 CTGTGGCCACGGAGTGCCTGCCGGGCCCTGACTACTCTGCCACTGCAACCCGGCTACCGTCA



[View online >](#)

```

CATCCCCAGCACCGCTACTGCGTGGATGTGAACGAGTGCAGGCAGAGCCCTGTGGCCCGGGGAGGGGCA
TCTGCATGAACACCGCGGCTCTACAATTGCCACTGCAACCGCGGCTACCGCCTGCACGTGGGCGCCGG
GGGGCGCTCGTGCCTGGACCTGAACGAATGCGCCAAGCCCCACCTGTGCGGCGACGGCGGCTTCTGCATC
AACTTTCCCGGTCACTACAAGTGAACCTGCTACCCCGGCTACCGGCTCAAAGCCTCCCGGCTCTGTGT
GCGAAGACATCGACGAGTGCCTGGACCCCAAGCTTTGCCCGGATGGCAAATGCGAGAACAAGCCCGGGAG
CTTCAAGTGCATCGCTGTCAGCCTGGTACCCGAGCCAGGGGGCGGGGCTGTCCGACGTGAACGAG
TGCAGCCGAGGGCAGCCCTGCTCGCTGGTGGTGGGAGAACCCTCCGGGCTCCTCCGCTGCACCTGTG
CCAGGGCTACGCGCCCGCGCCGACGGCCGAGTTGCTTGGATGTGGACGAGTGTGAGGCTGGGGACGT
GTGTGACAATGGCATCTGCAGCAACACGCCAGGATCTTCCAGTGTGAGTGCCTCTCTGGCTACCATCTG
TCCAGGGACCGGAGCCACTGCGAGGACATTGATGAGTGTGACTTCCCTGCAGCCTGCATTGGGGGTGACT
GCATCAATACCAATGGCTCCTACAGATGTCTTGGCCCCAGGGGCATCGGCTGGTGGGTGCAGGAAATG
CCAAGACATAGATGAGTGCAGCCAGGACCCGAGCCTGTGCCTTCCCATGGGGCTGCAAGAACCTTCAG
GGCTCCTATGTGTGTGTCTGCGATGAGGGCTTCACTCCACCCAGGACCAGCACGGTTGTGAGGAGGTGG
AGCAGCCCCACCACAAGAAGGAGTGTACCTGAACTTCGATGACACAGTGTCTGCGACAGCGTATTGGC
CACCACGTGACCCAGCAGGAGTGTGCTGCTCTCTGGGGCCGGCTGGGGCGACCACTGCGAAATCTAC
CCCTGCCAGTCTACAGCTCAGCCGAGTTCACAGCCTCTGCCAGACGGAAGGGCTACACCCAGGACA
ACAACATCGTCAACTACGGCATCCAGCCACCCTGACATCGACGAGTGCATGTTGTTCCGGTCCGAGAT
TTGCAAGGAGGGCAAGTGCCTGAACACGACGCTGGCTACGAGTGTACTGCAAGCAGGGCTTCTACTAC
GACGGGAACCTGCTGGAATGCGTGGACGTGGACGAGTGCCTGGACGAGTCCAACCTGCCGGAACGGAGTGT
GTGAGAACACGCGCGCGGCTACCGTGTGCTGCACGCCCTGCCGAGTACAGTCCCGCGCAGCGCCA
GTGCTGAGCCCGAAGAGATGGAGCGTGCCTGCACGCCCTGCCGAGTACAGTCCCGCGCAGCGCCA
GACGGCATGTGCTGCTGGCCCCCTGGCCGGGCTGCCCTCACCTTCGACGACTGCTGCTGCCGCCAGGGCC
GCGGCTGGGGCGCCCAATGCCGACCGTGCCTGCCCGCGCGGGGTCCATTGCCCGACATCGCAGAG
CGAGAGCAATTCCTTCTGGGACACAAGCCCTGCTGTTGGGGAAGCCCCAAGAGATGAGGACAGTTCAG
GAGGAGGATTGACGAGTGTGCTGCGTGCCTGAGTGGCCGCTGCGTCCCGCGCCGGGCGGCCGCTGTGCG
AGTGTCCCGCGGCTTCCAGCTCGACGCTCCCGCGCCGCTGCGTGGATATCGACGAGTCCGAGAGCT
GAACCAGCGGGCTGCTGTGCAAGAGCGAGCGTGCCTGAACACCAGCGGCTCCTCCGCTGCGTCTG
AAAGCCGGCTTCGCGCGCAGCCCGCACGGGCTGCGTTCACGCGCCGCG

```

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG229066 representing NM_001164266
 Red=Cloning site Green=Tags(s)

```

MNGGQCSSRNQCLCPPDFTGRFCQVPAGGAGGGTGGSGPGLSRTGALSTGALPPLAPEGDSVASKHAIYA
VQVIADPPGPGEGPPAQHAAFLVPLGPGQISAEVQAPPPVNVVRVHPPEASVQVHRIESSNAESAAPSQ
HLLPHPKPSHPRPPTQKPLGRFCQDTLQKQPCGSNPLPGLTKQEDCCGSIGTAWGQSKCHKCPQLQYTG
VKPQVPRGVEVADCPQGYKRLNSTHCQDINECAMPVCRHGDCLNPNPQSYRCVCPGHSLSGSRQCIAD
KPEEKSLCFRLVSPEHQHPLTTRLTRQLCCSVGKAWGARCQRCPTDGTAAFKEICPAGKGYHILTS
QTLTIQGESDFSLFLHPDGPPKQQLPESPSQAPPPEDEEERGVTTDSPVSEERSVQSSHTATTTTPAR
PYPELISRSPPTMRWFLPDLPPSRSAVEIAPTQVETDECRNLNQCNGHGEVCPGPPDYSCHCNPGYRS
HPQHRYCVDVNECEAEPCGPRGICMNTGGSYNCHCNRGYRLHVGAGGRSCVDLNECAKPHLCGDGGFCI
NFPGHYCNCPYGYRLKASRPPVCEIDECRDPSSCPDGKCNKPGSFKCIACQPGYRSQGGACRDVNE
CAEGSPSPGWENLPGSFRCTCAQGYAPADGRSCLDVDECEAGDVCDNGICSNTPGSFQCQLSGYHL
SRDRSHCEDIDECDFPAACIGGDCINTNGSYRCLCPQGHRLVGGKRCQDIDECSDPSLCLPHGACKNLQ
GSYVVCDEGFTPTQDQHGCCVEEVEPHHKKECYLNFDDTVFCDSVLATNVTQEECCSLGAGWGDHCEIY
PCPVYSSAEFHSLCPDGKGYTQDNNIVNYGIPAHRDIDECMLFGSEICKEGKCVNTQPGYECYCKQGFY
DGNLLECDVDDECLDESNCRNGVCENTRGGYRCACTPPAEYSPAQRQCLSPEEMERAPERDVCWSQRGE
DGMCAGPLAGPALTFDDCCCRQGRGWAQCRPCPPRGAGSHCPTSQSESNSFWDTSPLLLGKPPREDSS
EEDSDECRVSGRCVPRPGGAVCECPGGFQLDASRARCVDIDECRELNRGLLCKSERCVNTSGSFRVCV
KAGFARSRPHGACVPQRRR

```

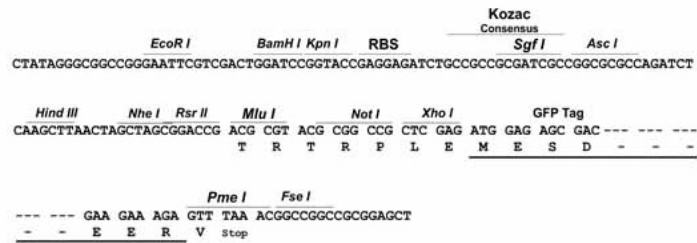
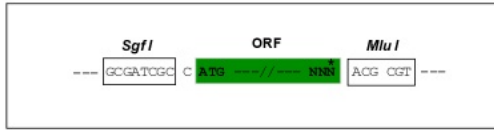
TRTRPLE – GFP Tag – V

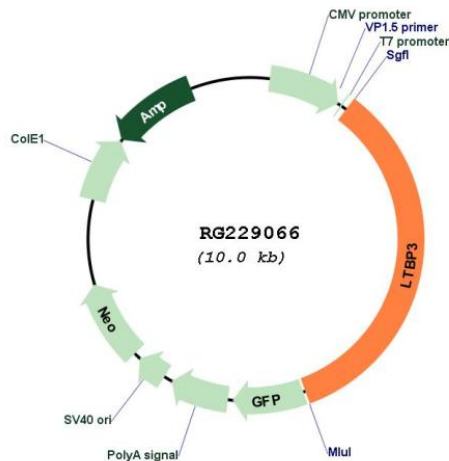
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001164266

ORF Size: 3417 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_001164266.1](#), [NP_001157738.1](#)

RefSeq Size: 4576 bp

RefSeq ORF: 3420 bp

Locus ID: 4054

UniProt ID: [Q9NS15](#)

Cytogenetics: 11q13.1

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene forms a complex with transforming growth factor beta (TGF-beta) proteins and may be involved in their subcellular localization. Activation of this complex requires removal of the encoded binding protein. This protein also may play a structural role in the extracellular matrix. Three transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2010]