

## Product datasheet for **MC220302**

### Lrrc32 (NM\_001113379) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc32 (NM_001113379) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lrrc32
Synonyms:	AI426318; D7H11S833E; D11S833Eh; EG434215; Garp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220302 representing NM\_001113379  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAGCCACCAGATCCTGCTACTCCTGGCCATGCTGACCCTGGCCTGGCTATCTCTCAGCGTCGAGAGC  
 AAGTGCCCTGTAGGACGGTGAACAAGGAGGCCTTGTGCCACGGCCTTGGCCTGCTCCAGGTCCCCTCGGT  
 GCTCTCACTGGACATCCAAGCTCTCTACTTGTCCGGGAACCAACTGCAGAGCATCCTGGTCTCCCCACTG  
 GGCTTCTATACAGCGCTTCGTCACCTGGATTTAAGTGACAACCAGATTAGCTTCTCCAGGCTGGGGTCT  
 TCCAGGCCCTGCCCTACCTGGAGCACCTTAACCTGGCCACAATCGGCTTGCCACAGGCATGGCTCTCAA  
 CAGTGGTGGTCTGGGCCCTGCCCTTTTGGTCTCCCTGGACCTGTCTGGGAACAGCCTGCATGGCAAT  
 CTGGTGGAGCGACTGTTGGGTGAGACCCCGAGGCTGCGTACGCTCTCACTGGCGGAGAACAGCCTCACTC  
 GCCTGGCAGCCACACCTTCTGGGGTATGCCAGCGGTGGAGCAATTAGACCTCCACAGCAATGTCCTCAT  
 GGATATCGAGGACGGTGCCTTTGAGGCCCTGCCACCTGACTCACCTCAATCTCTCCAGAACTCCCTC  
 ACCTGCATCTCAGACTTACGCTCCAGCAGCTGCAGGTAAGTACTAGACTTGGCTGCAACAGCATTGAGGCC  
 TCCAGACGGCCCCGGAACCACAGGCCAGTTCCAGTTGGCCTGGCTCGACCTCCGGGAGAACAAGTGTCT  
 CCACTTCCCTGACCTGGCCGTGTTCCCGAGACTCATCTACCTGAATGTGTCTAACAACTCATCCAGCTC  
 CCTGCGGGGCTGCCCGGGGAGTGGAGACCTCCACGCACCCTCTGAAGGCTGGTCAAGCCTCTCCACTGT  
 CCAACCCAGCCGGAATGCCAGCACCCACCCTCTCTCCAGCTCCTGAACCTGGATCTGAGTTACAATGA  
 GATCGAACTGGTCCCTGCTAGCTTTCTTGAACACTGACCTCCCTGCGCTTCTCAACCTCAGCAGAAAC  
 TGCTGCGATCCTTTGAGGCTCGACAAGTGGACTCCCTGCCCTGCTGGTGTCTTTGGACTTGAGCCACA  
 ATGTGCTGGAAGCATTAGAAGTGGTACCAAAGTCCCTAGGGTCCCTGCAGACGTTGCTTCTGCAGGACAA  
 TGCTTGAAGAAGTCCACCCTATACCTTTGCCAGCCTGGCCAGCCTGCAGAGGCTAAACCTACAGGGG  
 AACCGAGTCAAGTCCCTGTGGGGGCCAGCAGAACCAGGTCACCCGGGCTGTGTGGACTTCTCTGGGATCC  
 CCACCCTCATGTTCTTAACATGGCAGGGAACCTCGATGGGAATGCTCAGGGCGGGCAGCTTCTTCCACAC  
 CCCACTTACAGAGCTGGACCTCTCCACCAATCCTGGTCTGGATGTGGCCACGGGAGCCCTGGTGGCCTG  
 GAGGCATCCTTAGAGGTAAGTGGAGCTTCAAGGCAACGGGCTGACTGTCTTGGAGTGGACTTGGCCTGCT  
 TTCTCCGCTCAAGCGCCTAACCTTGTGAGAACCAGTTAAGCCACTGCCCGCTTGGACGCGGGCTGT  
 GTCCTGGAGGTCTAGATCTGCGGAACAACAGCTTCAAGCCTCCTGCCAGGCAATGCCATGGTGGCCTG  
 GAGACCAGTCTCCGGCGGCTGACTTGCAGGGAATCCACTCAGCTGCTGTGGCAATGGTGGCTGGCGG  
 CCCAGCTGCACCAGGGCAGAGTGGATGTGGATGCTACTCAGGACCTAATCTGCCGCTTTGGCTCCCAGGA  
 GGAGTTGTCCCTGAGCCTAGTGGTCCAGAGGATTGCGAGAAGGGAGGGCTGAAGAATGTCAACCTCATC  
 CTCTCTCAGCTTCACTGGTCTCTGCCATCGTCTCACCAGCTGGCCACCATCTGTTCTCTCCGCC  
 GGCAGAAGCTCAGCCAACAATACAAAGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja1760\\_e06.zip](https://cdn.origene.com/chromatograms/ja1760_e06.zip)

Restriction Sites: Sgfl-Mlul

ACCN: NM\_001113379

Insert Size: 1992 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](mailto: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](#)

**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\\_001113379.1](#), [NP\\_001106850.1](#)

**RefSeq Size:** 3817 bp

**RefSeq ORF:** 1992 bp

**Locus ID:** 434215

**UniProt ID:** [G3XA59](#)

**Cytogenetics:** 7 53.86 cM

**Gene Summary:** Key regulator of transforming growth factor beta (TGFB1, TGFB2 and TGFB3) that controls TGF-beta activation by maintaining it in a latent state during storage in extracellular space (PubMed:25127859). Associates specifically via disulfide bonds with the Latency-associated peptide (LAP), which is the regulatory chain of TGF-beta, and regulates integrin-dependent activation of TGF-beta (PubMed:25127859, PubMed:28912269). Able to outcompete LTBP1 for binding to LAP regulatory chain of TGF-beta (By similarity). Controls activation of TGF-beta-1 (TGFB1) on the surface of activated regulatory T-cells (Tregs) (PubMed:25127859). Required for epithelial fusion during palate development by regulating activation of TGF-beta-3 (TGFB3) (PubMed:28912269).[UniProtKB/Swiss-Prot Function]