

Product datasheet for MR202195

Lin7b (NM_011698) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lin7b (NM_011698) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Lin7b
Synonyms: LIN-7B; MALS-2; Veli2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202195 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCACTGGTGGAGCCGCTGGGGCTGGAGCGGGACGTGTCCCGGGCTGTGGAGCTGCTGGAGCGGC
 TGCAGCGCAGCGGAGAGCTGCCCGCAGAAGCTGCAGGCCCTGCAGCGGGTCTGCAGAGTCGTTCTG
 CTCGCCATCCGCGAGGTGTATGAACAGCTCTATGACACGCTGGACATCACTGGCAGCGCCGAGGTGCGG
 GCTCATGCCACAGCTAAGGCCACAGTGGCTGCTTTCACGGCCAGTGAGGGCCACGCACATCCAGGGTCC
 TGGAACTACCGAAGACTGATGAGGGTTTGGGCTTCAACATCATGGGTGGCAAGGAGCAGAACTACCCAT
 CTATATCTCTCGAGTCATCCCTGGGGCGTGGCTGATCGCCATGGTGGCCCAAGAGGGGAGACCAGCTG
 CTGTCTGTGAATGGTGTGAGTGTGGAAGGCGAACACCATGAAAAGGCGGTGGAACCTCTGAAGGCTGCAC
 AGGGCTCAGTAAACTGGTGGTGCCTACACTCCTCGGGTCTGGAGGAGATGGAAGCCCGCTTCGAGAA
 GATGCGATCTGCCGTCGGCGCCAGCAGCACCACAGCTACACGTCTTGGAGTCTCGAGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202195 protein sequence
 Red=Cloning site Green=Tags(s)

MAALVEPLGLERDVSRVALLERLQRSGELPPQKLQALQRLQSRFCSAIREVYEQLYDTLDITGSAEVR
 AHATAKATVAAF TASEGHAHPRVVELPKTDEGLGFNIMGGKEQNSPIYISRVIPGGVADRHGGLKRGDQL
 LSVNGVSVEGHEHKAPELLKAAQGSVKLVVRYTPRVLEEMEARFEKMRSARRRQHHHSYTSLESRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011698

ORF Size: 624 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_011698.1](#), [NP_035828.1](#)

RefSeq Size: 746 bp

RefSeq ORF: 624 bp

Locus ID: 22342

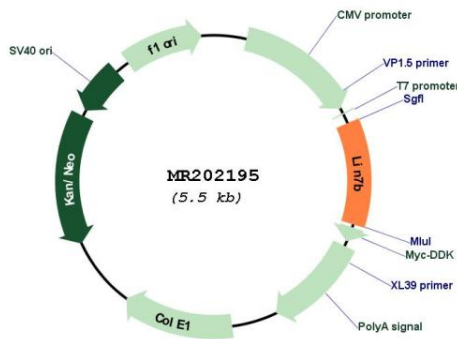
UniProt ID: [O88951](#)

Cytogenetics: 7 B3

MW: 22.9 kDa

Gene Summary: Plays a role in establishing and maintaining the asymmetric distribution of channels and receptors at the plasma membrane of polarized cells. Forms membrane-associated multiprotein complexes that may regulate delivery and recycling of proteins to the correct membrane domains. The tripartite complex composed of LIN7 (LIN7A, LIN7B or LIN7C), CASK and APBA1 may have the potential to couple synaptic vesicle exocytosis to cell adhesion in brain. Ensures the proper localization of GRIN2B (subunit 2B of the NMDA receptor) to neuronal postsynaptic density and may function in localizing synaptic vesicles at synapses where it is recruited by beta-catenin and cadherin. Required to localize Kir2 channels, GABA transporter (SLC6A12) and EGFR/ERBB1, ERBB2, ERBB3 and ERBB4 to the basolateral membrane of epithelial cells. May increase the amplitude of ASIC3 acid-evoked currents by stabilizing the channel at the cell surface.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202195