

Product datasheet for **RG205598**

LIN7 (LIN7B) (NM_022165) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LIN7 (LIN7B) (NM_022165) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LIN7
Synonyms: LIN-7B; MALS-2; MALS2; VELI2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205598 representing NM_022165
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCGCTGGTGGAGCCGCTGGGGCTGGAGCGGGACGTGTCCCGGGCGGTTGAGCTCCTCGAGCGGC
 TCCAGCGCAGCGGGGAGCTGCCGCCGAGAAGCTGCAGGCCCTCCAGCGAGTTCTGCAGAGCCGCTTCTG
 CTCCGCTATCCGAGAGGTGTATGAGCAGCTTTATGACACGCTGGACATCACCGGCAGCGCCGAGATCCGA
 GCCCATGCCACAGCCAAGGCCACAGTGGCTGCCTCACAGCCAGCGAGGGCCACGCACATCCAGGGTAG
 TGGAGCTACCCAAGACGGATGAGGGCCTAGGCTTCAACATCATGGGTGGCAAAGAGCAAACTCGCCCAT
 CTACATCTCCCGGTATCCAGGGGTGTGGCTGACCGCATGGAGGCCCAAGCGTGGGGATCAACTG
 TTGTCCGGTGAACGGTGTGAGCGTTGAGGGTGGCAGCATGAGAAGCGGTGGAGCTGCTGAAGGCGGCC
 AGGGCTCGGTGAAGCTGGTTGTCCGTTACACACCGCGAGTGTGGAGGAGATGGAGGCCCGGTTTCGAGAA
 GATGCGCTCTGCCCGCCGCGCCAACAGCATCAGAGCTACTCGTCCTTGAGTCTCGAGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205598 representing NM_022165
 Red=Cloning site Green=Tags(s)

MAALVEPLGLERDVSRVAVELLERLQRSGELPPQKLQALQRLVQSRFCSAIREVYEQLYDTLDITGSAEIR
 AHATAKATVAAF TASEGHAHPRVVELPKTDEGLGFNIMGGKEQNSPIYISRVIPGGVADRHGGLKRGDQL
 LSVNGVSVEGEQHEKAVELLKAAQGSVKLVVRYTPRVLEEMEARFEKMRSARRRQHQSYSSLESRG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_022165

ORF Size: 621 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_022165.3](#)

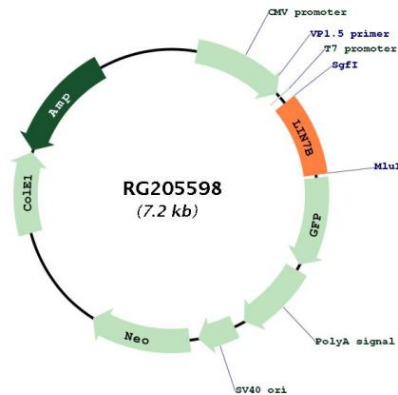
RefSeq Size: 755 bp

RefSeq ORF: 624 bp

Locus ID: 64130

UniProt ID: [Q9HAP6](#)
Cytogenetics: 19q13.33
Protein Families: Druggable Genome
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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205598