

Product datasheet for **SC122930**

LIN7 (LIN7B) (NM_022165) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: LIN7 (LIN7B) (NM_022165) Human Untagged Clone
Tag: Tag Free
Symbol: LIN7B
Synonyms: LIN-7B; MALS-2; MALS2; VELI2
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Cell Selection: None
Fully Sequenced ORF: >OriGene sequence for NM_022165 edited

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GGCGGCTGTGGCCGACATGGCTGCGCTGGTGGAGCCGCTGGGGCTGGAGCGGGACGTG  
TCCCGGGCGGTTGAGCTCCTCGAGCGGCTCCAGCGCAGCGGGAGCTGCCGCCGAGAAG  
CTGCAGGCCCTCCAGCGAGTTCTGCAGAGCCGCTTCTGCTCCGCTATCCGAGAGGTGTAT  
GAGCAGCTTTATGACACGCTGGACATCACCGGCAGCGCCGAGATCCGAGCCCATGCCACA  
GCCAAGGCCACAGTGGCTGCCTTACAGCCAGCGAGGGCCACGCACATCCCAGGGTAGTG  
GAGCTACCAAGACGGATGAGGGCCTAGGCTTCAACATCATGGGTGGCAAAGAGCAAAAC  
TCGCCCATCTACATCTCCCGGTCATCCCAGGGGTGTGGCTGACCGCCATGGAGGCCTC  
AAGCGTGGGGATCAACTGTTGTCGGTGAACGGTGTGAGCGTTGAGGGTGAGCAGCATGAG  
AAGGCGGTGGAGCTGCTGAAGCGGCCAGGGCTCGGTGAAGCTGTTGTCGGTTACACA  
CCGCGAGTGTGGAGGAGATGGAGGCCCGTTCGAGAAGATGCGCTCTGCCCGCCGGCGC  
CAACAGCATCAGAGCTACTCGTCTTGGAGTCTCGAGGTTGAAACCACAGATCTGGACGT  
TCACGTGCACTCTTCTGTACAGTATTTATTGTTCTGGCACTTTATTTAAAGATATT  
TGACCCTCAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_022165 unedited GCTCANCATTTGTNATACGACTTACTATAGGGCGGCCGCATAACTTCGTATAGCATAACAT TATACGAAGTTATGGATCAAGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGGCGG CTGTGGCGCCGACATGGCTGCGCTGGTGGAGCCGCTGGGGCTGGAGCGGGACGTGTCCCG GGCGGTTGAGCTCCTCGAGCGGCTCCAGCGCAGCGGGGAGCTGCCGCCGAGAAGCTGCA TGCCCTCCAGCGAGTTCTGCAGAGCCGCTTCTGCTCCGCTATCCGAGAGGTGTATGAGCA GCTTTATGACACGCTGGACATCACCGGCAGCGCCGAGATCCGAGCCCATGCCACAGCCAA GGCCACAGTGGCTGCCTTACAGCCAGCGAGGGCCACGCACATCCAGGGTAGTGGAGCT ACCCAAGACGGATGAGGGCCTAGGCTTCAACATCATGGGTGGCAAAGAGCAAAACTCGCC CATCTACATCTCCCGGTCATCCCAAGGGGTGTGGCTGACCGCCATGGAGGCTCAAGCG TGGGGATCAACTGTTGTCGGTGAACGGTGTGAGCGTTGAGGGTGAGCAGCATGAGAGGGC GGTGGAGCTGCTGAAGGCGGCCCAAGGCTCGGTGAAACTGTTTGGCCGTTACCCACCCC GAGTGTGGAGGAAAATGAAGCCAGGTCCGAGAAGATCCCTCTGCCCGCCGGGGCCA AACGGCTTCAGAACCACTTCGTGCCTTGGAGTCTCGAGGGTGGAAACCCCAAGATCTGGG ACGGGCAACGTGCACTCTCTTCTGGGAAAGATTTTTATTGGTTCGCGGCCCTTTAT TATAAGAAATCTGACCCCAAGAATAAAAAAAAAAACTCTCCAACCTGGATCCCGCCCT AAGGGCCTTGTCTTACAGGGGGGCCCGGCCATTTTGTAGCTTGGAACTTAGAN
Restriction Sites:	Please inquire
ACCN:	NM_022165
Insert Size:	749 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_022165.2 , NP_071448.1
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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).