

Product datasheet for MR202694

Lin7a (BC105965) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Lin7a (BC105965) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Lin7a

Synonyms: Veli1, LIN-7A, MALS-1, TIP-33, Veli

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >MR202694 representing BC105965

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202694 representing BC105965

Red=Cloning site Green=Tags(s)

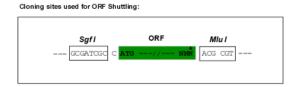
MHETITVNGCPEFRARATAKATVAAFAASEGHSHPRVVELPKTDEGLGFNVMGGKEQNSPIYISRIIPGG VAERHGGLKRGDQLLSVNGVSVEGEHHEKAVELLKAAKATVAAFAASEGHSHPRVVELPKTDEGLGFNVM GGKEQNSPIYISRIIPGGVAERHGGLKRGDQLLSDTPQKSWKRWRLVSRSCGQLGVDSSSSCSFSSSNSS SNNNHNKTTCHRRSKES

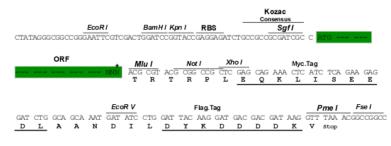
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

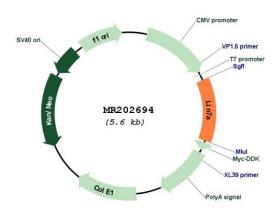
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: BC105965

ORF Size: 681 bp

Lin7a (BC105965) Mouse Tagged ORF Clone - MR202694

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: <u>BC105965</u>

RefSeq Size: 5500 bp

RefSeq ORF: 683 bp

Locus ID: 108030

Cytogenetics: 10 D1

MW: 201.6 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.[UniProtKB/Swiss-Prot Function]