

## Product datasheet for **MG218556**

### Lin7a (NM\_001039354) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lin7a (NM_001039354) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lin7a
Synonyms:	A1848705; LIN-7A; MALS-1; TIP-33; Veli; Veli1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218556 representing NM_001039354 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGAAGCCGAGCGTCACTTCGGCTCCACGGCAGACATGGCGACATTGACAGTGGTCCAGCCGCTTA  
CTCTGGACAGAGATGTTGCAAGCAATCGAACTACTGGAAAAGCTACAAGAATCTGGAGAAGTACCAGT  
GCACAAGCTCCAGTCTCTCAAAAAGGTGCTTCAGAGTGAGTTTTGTACAGCAATCCGAGAGGTGTATCAA  
TACATGCATGAAACGATTACTGTTAATGGCTGCCCTGAATTCGTGCGAGGGCCACAGCAAAGGCAACAG  
TTGCAGCTTTTGCAGCCAGCGAAGGCCACTCCACCCCTCGGGTAGTTGAACTGCCAAAGACTGATGAAGG  
CCTGGGTTTTAATGTGATGGGAGGGAAGGAACAGAATTCCTCCGATTTACATCTCCCGCATCATCCCTGGA  
GGGGTGGCTGAAAGACATGGAGGCTCAAAGAGGGGACCAGCTGCTATCAGTGAACGGAGTGAGTGTGG  
AAGGGGAGCACCATGAGAAAGCTGTGAACTTCTCAAGGCTGCTAAGGACAGTGTGAAGCTGGTGGTTCAG  
ATACACCCAAAAGTCTGGAAGAGATGGAGGCTCGTTTCGAGAAGCTGCGGACAGCTCGGCGTCGACAG  
CAGCAGCAGTTGCTCATTTCAGCAGCAGCAACAGCAGCAGCAACAACAACCAACAAAACCATGTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG218556 representing NM\_001039354  
 Red=Cloning site Green=Tags(s)

MLKPSVTSAPTADMATLTVVQPLTLDRDVARAIELLEKLQESGEVPHKLQSLKKVLQSEFCTAIREVYQ  
 YMHETITVNGCPEFRARATAKATVAFAASEGHSHPRVVELPKTDEGLGFNVMGGKEQNSPIYISRIIPG  
 GVAERHGGLKRGDQLLSVNGVSVGEHHEKAVELLKAAKDSVKLVVRYTPKVLEEMEARFEKLRTARRRQ  
 QQQLLIQQQQQQQQPQNHMS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001039354

**ORF Size:** 699 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\\_001039354.1](#), [NP\\_001034443.1](#)

**RefSeq Size:** 5887 bp

**RefSeq ORF:** 702 bp

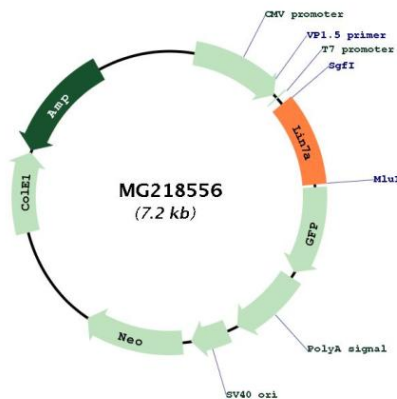
**Locus ID:** 108030

**UniProt ID:** [Q8JZS0](#)

**Cytogenetics:** 10 D1

**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]

### Product images:



Circular map for MG218556