LIN7A cDNA Clone – Lin-7 Homolog A (C. Elegans) (Human)

PRODUCT OVERVIEW

Product Name	LIN7A, cDNA Clone
Full Product Name	LIN7A cDNA Clone
Product Gene Name	LIN7A cdna clone
Sequence	ATGCTGAAGC CGAGCGTCAC TTCGGCTCCC ACGGCAGACA TGGCGACATT GACAGTGGTC CAGCCGCTCA CCCTGGACAG AGATGTTGCA AGAGCAATTG AATTACTGGA AAAACTACAG GAATCTGGAG AAGTACCAGT GCACAAGCTA CAATCCCTCA AAAAAGTGCT TCAGAGTGAG TTTTGTACAG CTATTCGAGA GGTGTATCAA TATATGCATG AAACGATAAC TGTTAATGGC TGTCCCGAAT TCCGTGCGAG GGCAACAGCA AAGGCAACAG TTGCAGCTTT TGCAGCTAGT GAAGGCCACT CCCACCCTCG AGTAGTTGAA CTGCCAAAGA CTGATGAAGG CCTTGGTTTT AATGTGATGG GAGGAAAGGA GCAAAATTCC CCCATTTATA TCTCTCGCAT AATTCCTGGA GGGGTGGCTG AAAGACACGG AGGCCTCAAA AGAGGAGACC AGCTGCTATC AGTGAACGGA GTGAGTGTGG AAGGAGAACA CCATGAGAAA GCTGTGGAAC TACTCAAGGC TGCTAAAGAC AGCGTCAAGC TGGTGGTGCG ATACACCCCA AAAGTTCTGG AAGAAATGGA GGCTCGCTTT GAAAAGCTAC GAACAGCCAG GCGTCGGCAG CAGCAGCAAT TGCTAATTCA GCAGCAGCAA CAGCAGCAGC AGCAACAAAC ACAACAAAAC CACATGTCAT AG
Molecular Weight	25,997 Da
OMIM	603380
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LIN7A cdna clone	MBS1274561 is a cDNA clone targeting LIN7A.
Other Notes	Small volumes of LIN7A cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LIN7A. It may not necessarily be applicable to this product.

NCBI GI #	110002632
NCBI GeneID	8825
NCBI Accession #	BC118609
UniProt Secondary Accession #	Q147W1; Q6LES3; Q7LDS4; A4FTY3
UniProt Related Accession #	O14910
NCBI Official Full Name	Homo sapiens lin-7 homolog A (C. elegans), mRNA
NCBI Official Synonym Full Names	lin-7 homolog A, crumbs cell polarity complex component
NCBI Official Symbol	LIN7A
NCBI Official Synonym Symbols	LIN7; VELI1; LIN-7A; MALS-1; TIP-33
UniProt Protein Name	Protein lin-7 homolog A

UniProt Synonym Protein Names	Mammalian lin-seven protein 1; MALS-1; Tax interaction protein 33; TIP-33; Vertebrate lin-7 homolog 1; Veli-1
Protein Family	Protein
UniProt Gene Name	LIN7A
UniProt Synonym Gene Names	MALS1; VELI1; Lin-7A; hLin-7; MALS-1; TIP-33; Veli-1
UniProt Entry Name	LIN7A_HUMAN
NCBI Protein Information	protein lin-7 homolog A
NCBI Summary for LIN7A	The protein encoded by this gene is involved in generating and maintaining the asymmetric distribution of channels and receptors at the cell membrane. The encoded protein also is required for the localization of some specific channels and can be part of a protein complex that couples synaptic vesicle exocytosis to cell adhesion in the brain. [provided by RefSeq, May 2016]
UniProt Comments for LIN7A	LIN7A: 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. Belongs to the lin-7 family. Protein type: Adaptor/scaffold; Cell adhesion Chromosomal Location of Human Ortholog: 12q21 Cellular Component: basolateral plasma membrane; intercellular junction; plasma membrane Molecular Function: protein binding Biological Process: maintenance of epithelial cell polarity; neurotransmitter secretion; protein complex assembly
Research Articles on LIN7A	**1.** LIN7A depletion disrupts cerebral cortex development, contributing to intellectual disability in 12q21-deletion syndrome.
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