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Product datasheet for MR225677L3V

Lin28b (NM_001031772) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Lin28b (NM_001031772) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Lin28b
Synonyms:	2810403D23Rik; D030047M17Rik; Lin-28.2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001031772
ORF Size:	813 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(MR225677).`
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.
RefSeq:	NM_001031772.2, NP_001026942.1
RefSeq Size:	5420 bp
RefSeq ORF:	816 bp
Locus ID:	380669
UniProt ID:	Q45KJ6
Cytogenetics:	10 B2

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Gene Summary: Suppressor of microRNA (miRNA) biogenesis, including that of let-7 and possibly of miR107, miR-143 and miR-200c. Binds primary let-7 transcripts (pri-let-7), including pri-let-7g and pri-let-7a-1, and sequester them in the nucleolus, away from the microprocessor complex, hence preventing their processing into mature miRNA. Does not act on pri-miR21. The repression of let-7 expression is required for normal development and contributes to maintain the pluripotent state of embryonic stem cells by preventing let-7-mediated differentiation. When overexpressed, recruits ZCCHC11/TUT4 uridylyltransferase to pre-let-7 transcripts, leading to their terminal uridylation and degradation. This activity might not be relevant in vivo, as LIN28B-mediated inhibition of let-7 miRNA maturation appears to be ZCCHC11-independent. Interaction with target pre-miRNAs occurs via an 5'-GGAG-3' motif in the pre-miRNA terminal loop (By similarity). Mediates MYC-induced let-7 repression (PubMed:19211792). When overexpressed, may stimulate growth of carcinoma cell lines (By similarity).[UniProtKB/Swiss-Prot Function]