

Product datasheet for MR226558L3V

CbIn1 (NM_019626) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

| Product Type: | Lentiviral Particles |
|------------------------------|---|
| Product Name: | Cbln1 (NM_019626) Mouse Tagged ORF Clone Lentiviral Particle |
| Symbol: | Cbln1 |
| Synonyms: | AI323299 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| Tag: | Myc-DDK |
| ACCN: | NM_019626 |
| ORF Size: | 579 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(MR226558). |
| 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. <u>More info</u> |
| 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: | <u>NM 019626.3, NP 062600.2</u> |
| RefSeq Size: | 2345 bp |
| RefSeq ORF: | 582 bp |
| Locus ID: | 12404 |
| UniProt ID: | <u>Q9R171</u> |
| Cytogenetics: | 8 42.16 cM |



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Sorigene Cbln1 (NM

Gene Summary: Required for synapse integrity and synaptic plasticity. During cerebellar synapse formation, essential for the matching and maintenance of pre- and post-synaptic elements at parallel fiber-Purkinje cell synapses, the establishment of the proper pattern of climbing fiber-Purkinje cell innervation, and induction of long-term depression at parallel fiber-Purkinje cell synapses (PubMed:16234806). Plays a role as a synaptic organizer that acts bidirectionally on both pre- and post-synaptic components (PubMed:20395510). On the one hand induces accumulation of synaptic vesicles in the pre-synaptic part by binding with NRXN1 and in other hand induces clustering of GRID2 and its associated proteins at the post-synaptic site through association of GRID2 (PubMed:21410790). NRXN1-CBLN1-GRID2 complex directly induces parallel fiber protrusions that encapsulate spines of Purkinje cells leading to accumulation of GRID2 and synaptic vesicles (PubMed:23141067). Required for CBLN3 export from the endoplasmic reticulum and secretion (PubMed:17030622, PubMed:17331201). NRXN1-CBLN1-GRID2 complex mediates the D-Serine-dependent long term depression signals and AMPA receptor endocytosis (By similarity).[UniProtKB/Swiss-Prot Function]

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