

Product datasheet for **MR227649L4V**

Cblb (NM_001033238) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

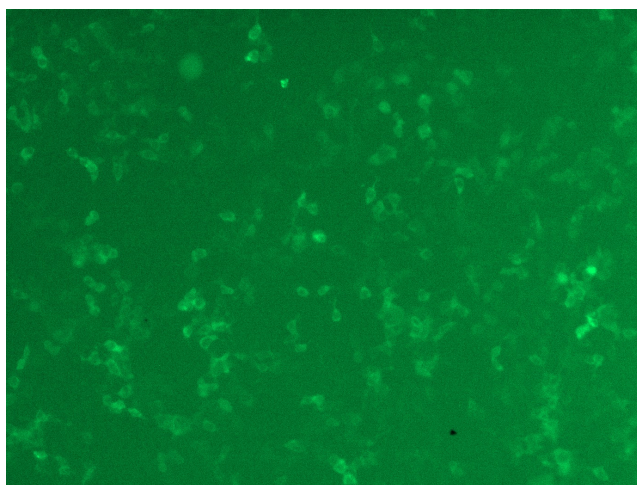
Product Type:	Lentiviral Particles
Product Name:	Cblb (NM_001033238) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Cblb
Synonyms:	AI429560; AI851073; Cbl-b
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001033238
ORF Size:	2814 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR227649).
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_001033238.1 , NP_001028410.1
RefSeq Size:	6323 bp
RefSeq ORF:	2817 bp
Locus ID:	208650
UniProt ID:	Q3TTA7
Cytogenetics:	16 B5



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Gene Summary:

E3 ubiquitin-protein ligase which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and transfers it to substrates, generally promoting their degradation by the proteasome. Negatively regulates TCR (T-cell receptor), BCR (B-cell receptor) and FCER1 (high affinity immunoglobulin epsilon receptor) signal transduction pathways. In naive T-cells, inhibits VAV1 activation upon TCR engagement and imposes a requirement for CD28 costimulation for proliferation and IL-2 production. Also acts by promoting PIK3R1/p85 ubiquitination, which impairs its recruitment to the TCR and subsequent activation. In activated T-cells, inhibits PLCG1 activation and calcium mobilization upon restimulation and promotes energy. In B-cells, acts by ubiquitinating SYK and promoting its proteasomal degradation. Slightly promotes SRC ubiquitination. May be involved in EGFR ubiquitination and internalization. May be functionally coupled with the E2 ubiquitin-protein ligase UB2D3. In association with CBL, required for proper feedback inhibition of ciliary platelet-derived growth factor receptor-alpha (PDGFRA) signaling pathway via ubiquitination and internalization of PDGFRA (PubMed:29237719).[UniProtKB/Swiss-Prot Function]

Product images:

[MR227649L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with MR227649L4V particle to overexpress human Cblb-mGFP fusion protein.