

Product datasheet for **TL516975V**

Lptm4b Mouse shRNA Lentiviral Particle (Locus ID 114128)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	Lptm4b Mouse shRNA Lentiviral Particle (Locus ID 114128)
Locus ID:	114128
Synonyms:	C330023P13Rik; LAPTM4beta
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	Lptm4b - Mouse shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 ⁷ TU/ml.
RefSeq:	BC019120 , NM_033521 , NM_033521.1 , NM_033521.2 , NM_033521.3
UniProt ID:	Q91XQ6
Summary:	Required for optimal lysosomal function. Blocks EGF-stimulated EGFR intraluminal sorting and degradation. Conversely by binding with the phosphatidylinositol 4,5-bisphosphate, regulates its PIP5K1C interaction, inhibits HGS ubiquitination and relieves LAPTM4B inhibition of EGFR degradation. Recruits SLC3A2 and SLC7A5 (the Leu transporter) to the lysosome, promoting entry of leucine and other essential amino acid (EAA) into the lysosome, stimulating activation of proton-transporting vacuolar (V)-ATPase protein pump (V-ATPase) and hence mTORC1 activation. Plays a role as negative regulator of TGFB1 production in regulatory T cells. Binds ceramide and facilitates its exit from late endosome in order to control cell death pathways.[UniProtKB/Swiss-Prot Function]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .

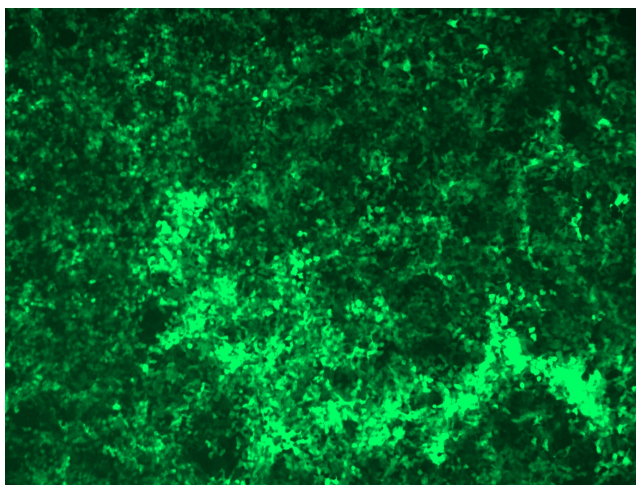


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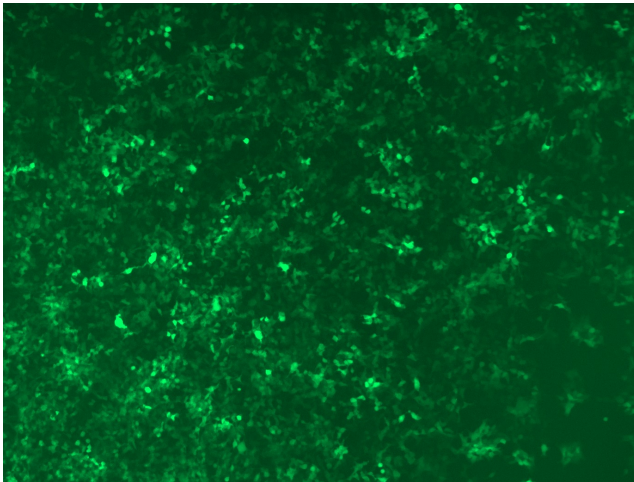
**Performance
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

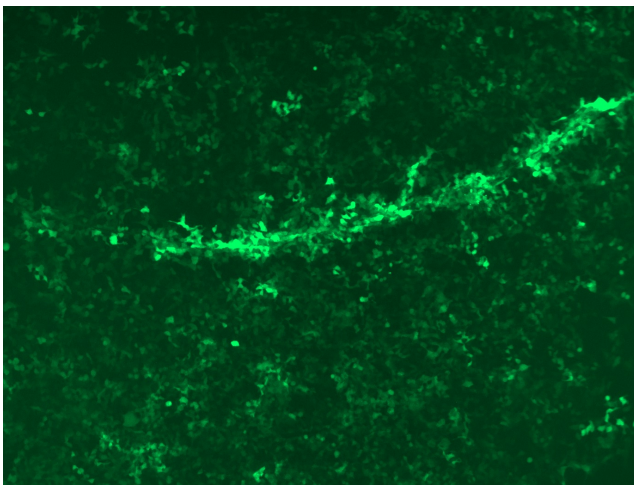
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

Product images:

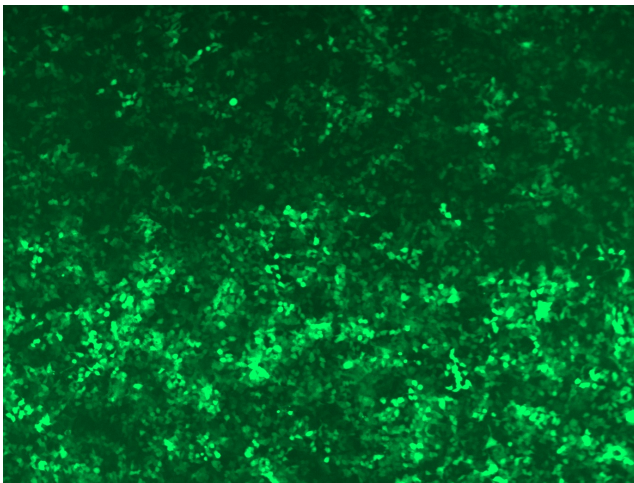
GFP signal was observed under microscope at 48 hours after transduction of TL516975A virus into HEK293 cells. TL516975A virus was prepared using lenti-shRNA TL516975A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL516975B virus into HEK293 cells. TL516975B virus was prepared using lenti-shRNA TL516975B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL516975C] virus into HEK293 cells. [TL516975C] virus was prepared using lenti-shRNA [TL516975C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL516975D] virus into HEK293 cells. [TL516975D] virus was prepared using lenti-shRNA [TL516975D] and [TR30037] packaging kit.