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Product datasheet for TL316950V

TMED2 Human shRNA Lentiviral Particle (Locus ID 10959)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	TMED2 Human shRNA Lentiviral Particle (Locus ID 10959)
Locus ID:	10959
Synonyms:	p24; P24A; p24b1; p24beta1; RNP24
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	TMED2 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_001321445, NM_006815, NM_006815.1, NM_006815.2, NM_006815.3, BC025957, BC025957.1
UniProt ID:	Q15363
Summary:	Involved in vesicular protein trafficking. Mainly functions in the early secretory pathway but also in post-Golgi membranes. Thought to act as cargo receptor at the lumenal side for incorporation of secretory cargo molecules into transport vesicles and to be involved in vesicle coat formation at the cytoplasmic side. In COPII vesicle-mediated anterograde transport involved in the transport of GPI-anchored proteins and proposed to act together with TMED10 as their cargo receptor; the function specifically implies SEC24C and SEC24D of the COPII vesicle coat and lipid raft-like microdomains of the ER. Recognizes GPI anchors structural remodeled in the ER by PGAP1 and MPPE1. In COPI vesicle-mediated retrograde transport inhibits the GTPase-activating activity of ARFGAP1 towards ARF1 thus preventing immature uncoating and allowing cargo selection to take place. Involved in trafficking of G protein-coupled receptors (GPCRs). Regulates F2RL1, OPRM1 and P2RY4 exocytic trafficking from the Golgi to the plasma membrane thus contributing to receptor resensitization. Facilitates CASR maturation and stabilization in the early secretory pathway and increases CASR plasma membrane targeting. Proposed to be involved in organization of intracellular membranes such as the maintenance of the Golgi apparatus. May also play a role in the biosynthesis of secreted cargo such as eventual processing.[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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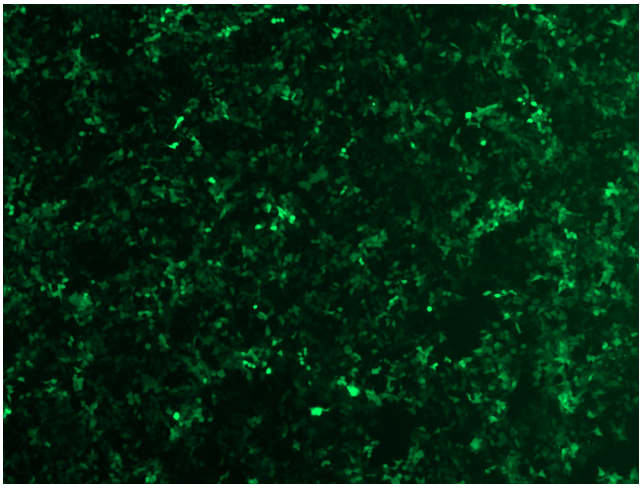
Performance Guaranteed:

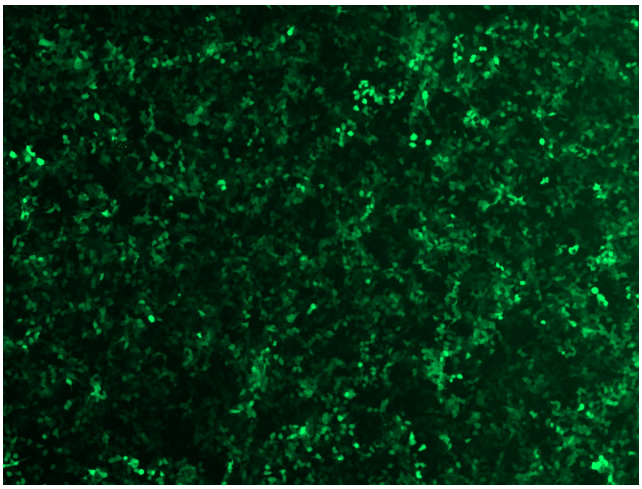
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. 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).

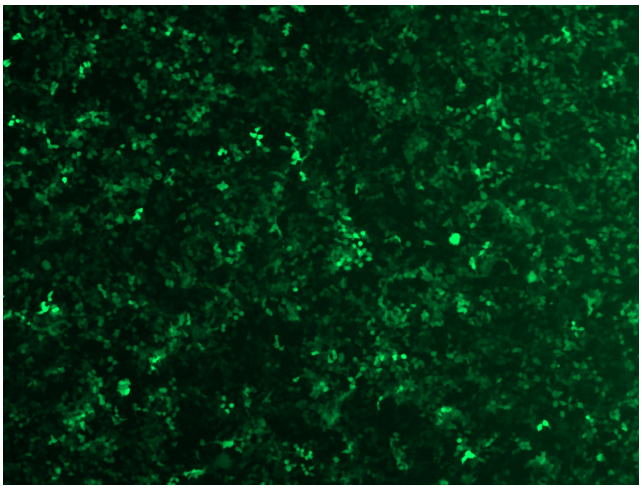
Product images:



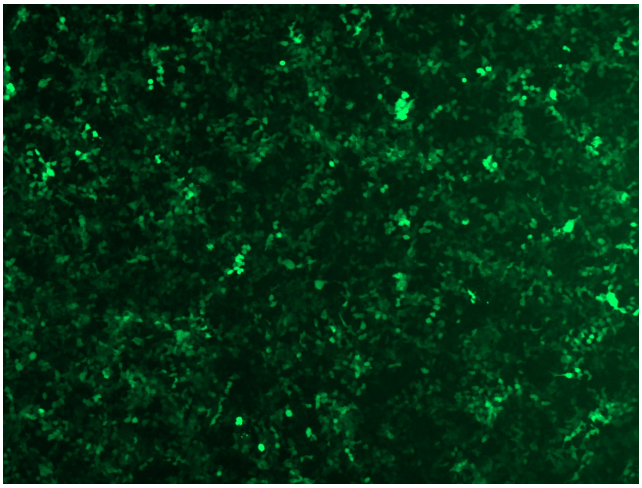
GFP signal was observed under microscope at 48 hours after transduction of TL316950A virus into HEK293 cells. TL316950A virus was prepared using lenti-shRNA TL316950A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL316950B virus into HEK293 cells. TL316950B virus was prepared using lenti-shRNA TL316950B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL316950C] virus into HEK293 cells. [TL316950C] virus was prepared using lenti-shRNA [TL316950C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL316950D] virus into HEK293 cells. [TL316950D] virus was prepared using lenti-shRNA [TL316950D] and [TR30037] packaging kit.