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Product datasheet for TL513855V

Tnfsf11 Mouse shRNA Lentiviral Particle (Locus ID 21943)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	Tnfsf11 Mouse shRNA Lentiviral Particle (Locus ID 21943)
Locus ID:	21943
Synonyms:	Ly109l; ODF; OPGL; RANKL; Trance
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	Tnfsf11 - Mouse shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	BC125603, BC131970, NM_011613, NM_011613.1, NM_011613.2, NM_011613.3
UniProt ID:	O35235
Summary:	Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation and activation factor. Augments the ability of dendritic cells to stimulate naive T-cell proliferation. May be an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy (By similarity). Induces osteoclastogenesis by activating multiple signaling pathways in osteoclast precursor cells, chief among which is induction of long lasting oscillations in the intracellular concentration of Ca (2+) resulting in the activation of NFATC1, which translocates to the nucleus and induces osteoclast-specific gene transcription to allow differentiation of osteoclasts (PubMed:24039232). During osteoclast differentiation, in a TMEM64 and ATP2A2-dependent manner induces activation of CREB1 and mitochondrial ROS generation necessary for proper osteoclast generation (PubMed:23395171, PubMed:26644563).[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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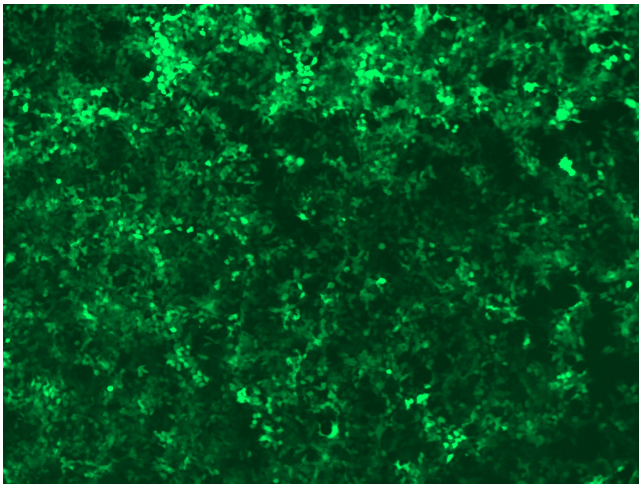
Performance Guaranteed:

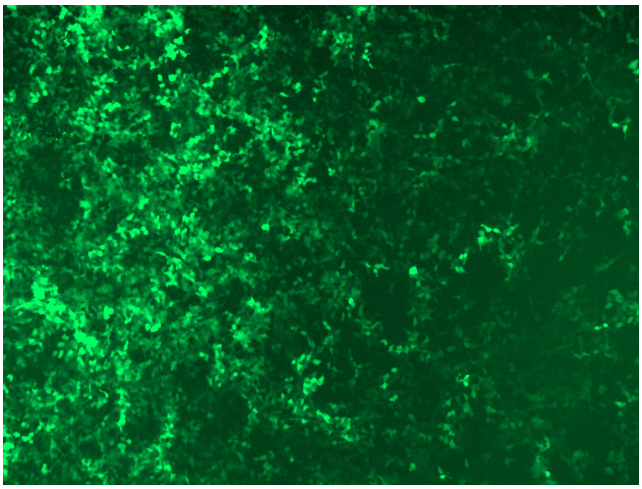
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved.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

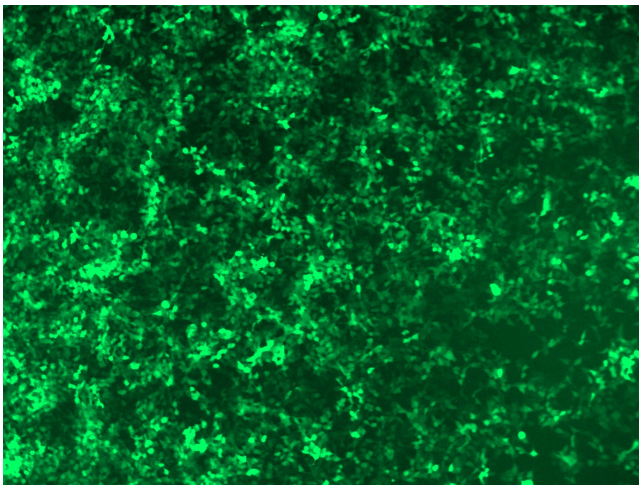
Product images:



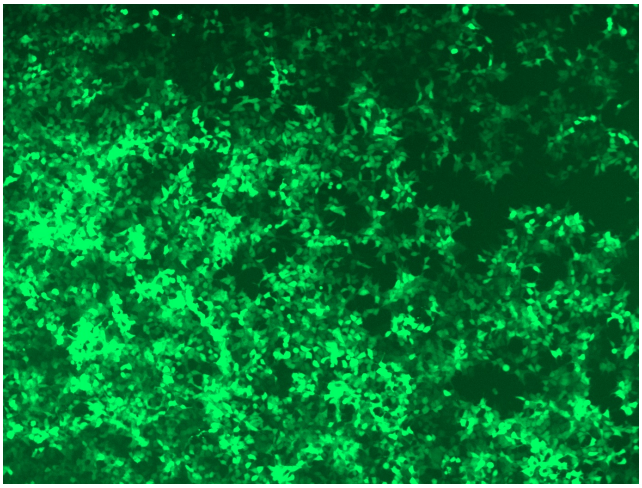
GFP signal was observed under microscope at 48 hours after transduction of TL513855A virus into HEK293 cells. TL513855A virus was prepared using lenti-shRNA TL513855A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL513855B virus into HEK293 cells. TL513855B virus was prepared using lenti-shRNA TL513855B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL513855C] virus into HEK293 cells. [TL513855C] virus was prepared using lenti-shRNA [TL513855C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL513855D] virus into HEK293 cells. [TL513855D] virus was prepared using lenti-shRNA [TL513855D] and [TR30037] packaging kit.