

## Product datasheet for **TL515174V**

### **Tgfb3 Mouse shRNA Lentiviral Particle (Locus ID 21809)**

#### **Product data:**

Product Type:	shRNA Lentiviral Particles
Product Name:	Tgfb3 Mouse shRNA Lentiviral Particle (Locus ID 21809)
Locus ID:	21809
Synonyms:	TGF-beta-3; Tgfb-3
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	Tgfb3 - Mouse shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 <sup>7</sup> TU/ml.
RefSeq:	<a href="#">BC014690</a> , <a href="#">BC108426</a> , <a href="#">NM_009368</a> , <a href="#">NM_009368.1</a> , <a href="#">NM_009368.2</a> , <a href="#">NM_009368.3</a> , <a href="#">BC005513</a> , <a href="#">BC089347</a> , <a href="#">BC094591</a>

**Summary:** This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. This protein is involved in embryogenesis and cell differentiation, and may play a role in wound healing. Homozygous knockout mice for this gene exhibit cleft palate, delayed pulmonary development and neonatal death. [provided by RefSeq, Aug 2016]

**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](mailto:techsupport@origene.com). If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).

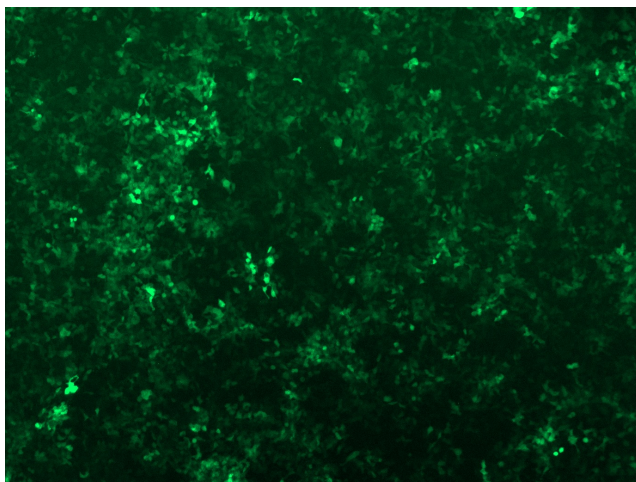


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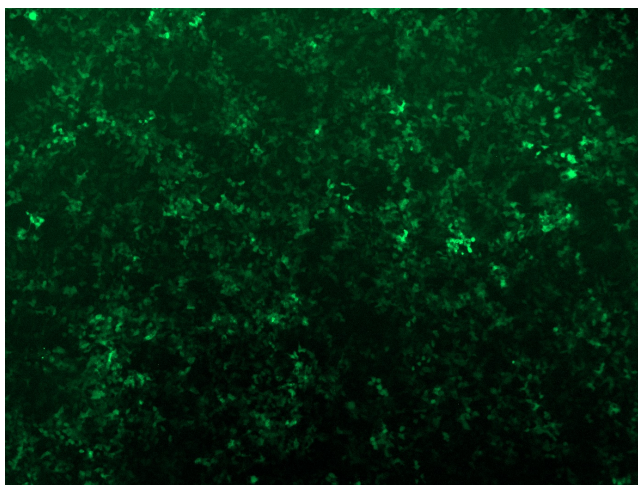
**Performance  
Guaranteed:**

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](mailto: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 TL515174B virus into HEK293 cells. TL515174B virus was prepared using lenti-shRNA TL515174B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL515174C] virus into HEK293 cells. [TL515174C] virus was prepared using lenti-shRNA [TL515174C] and [TR30037] packaging kit.