

## Product datasheet for **TL502269**

### Tgfb1 Mouse shRNA Plasmid (Locus ID 21803)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Tgfb1 Mouse shRNA Plasmid (Locus ID 21803)
Locus ID:	21803
Synonyms:	TGF-beta; TGF-beta1; Tgfb; Tgfb-1; TGFbeta; TGFbeta1
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Tgfb1 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 21803). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">BC013738</a> , <a href="#">NM_011577</a> , <a href="#">NM_011577.1</a> , <a href="#">NM_011577.2</a>
UniProt ID:	<a href="#">P04202</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 encoded protein regulates cell proliferation, differentiation and growth, and can modulate expression and activation of other growth factors including interferon gamma and tumor necrosis factor alpha. Mice lacking a functional copy of this gene develop severe multifocal inflammatory disease, yolk sac defects and colon cancer. [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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .

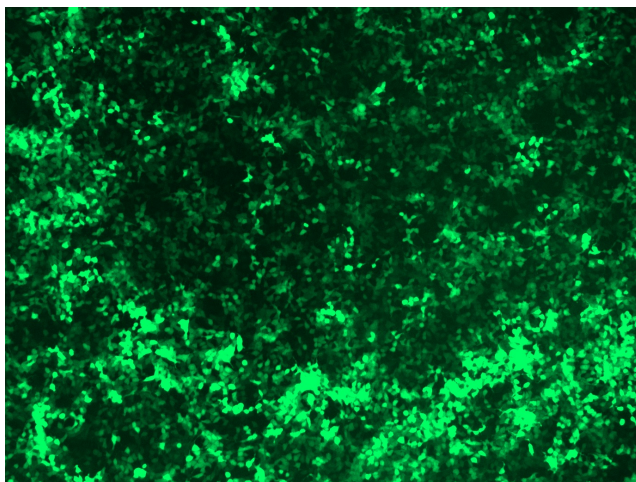


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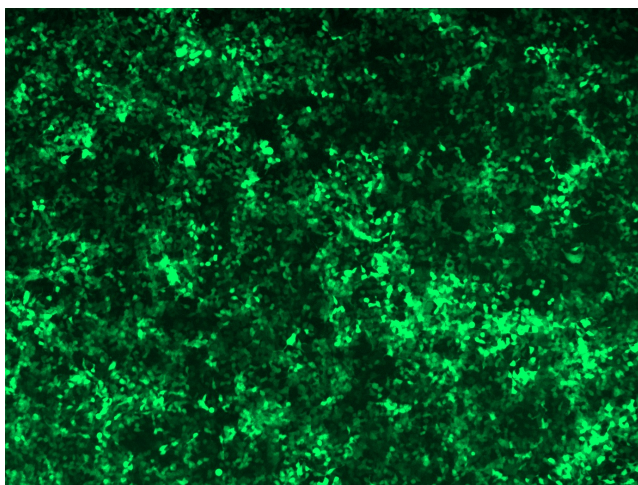
**Performance  
Guaranteed:**

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.

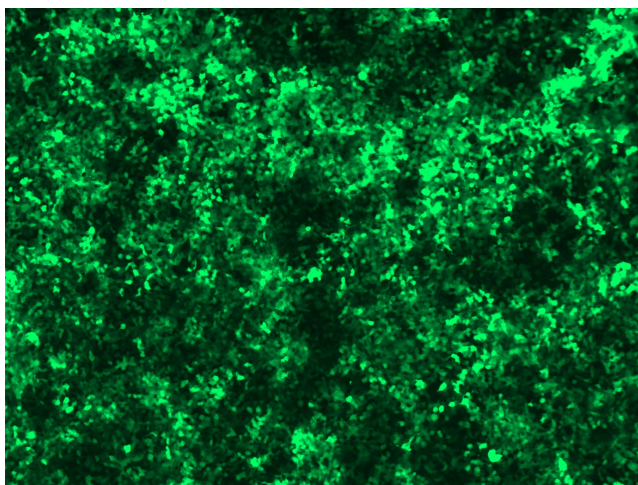
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). 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:**

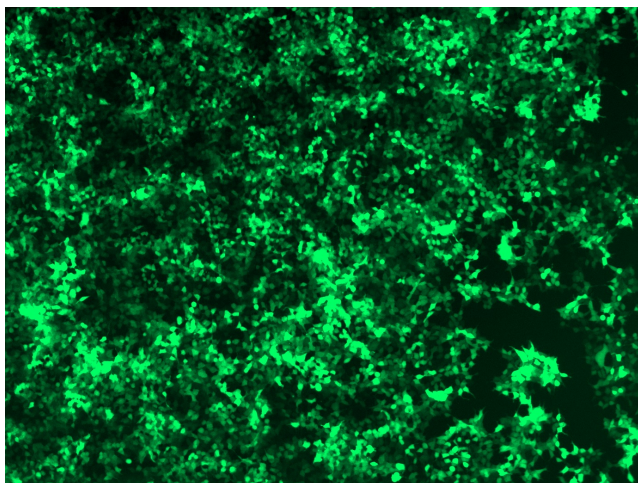
GFP signal was observed under microscope at 48 hours after transduction of TL502269A virus into HEK293 cells. TL502269A virus was prepared using lenti-shRNA TL502269A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL502269B virus into HEK293 cells. TL502269B virus was prepared using lenti-shRNA TL502269B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL502269C] virus into HEK293 cells. [TL502269C] virus was prepared using lenti-shRNA [TL502269C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL502269D] virus into HEK293 cells. [TL502269D] virus was prepared using lenti-shRNA [TL502269D] and [TR30037] packaging kit.