

## Product datasheet for **TG511705**

### Tgfbr1 Mouse shRNA Plasmid (Locus ID 21812)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Tgfbr1 Mouse shRNA Plasmid (Locus ID 21812)
Locus ID:	21812
Synonyms:	AL; Alk; Alk-5; ALK5; AU017191; ESK2; Tbet; Tbeta; TbetaR-I; TbetaRI; TGFR-1
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Tgfbr1 - Mouse, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 21812). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	<a href="#">BC063260</a> , <a href="#">NM_009370</a> , <a href="#">NM_009370.1</a> , <a href="#">NM_009370.2</a> , <a href="#">NM_009370.3</a>
UniProt ID:	<a href="#">Q64729</a>
Summary:	This gene encodes a member of the transforming growth factor beta (TGF-beta) receptor family of proteins. These proteins comprise one component of the TGF-beta signaling pathway, which transduces extracellular signals into gene expression changes to regulate a wide range of cellular responses, including proliferation, migration, differentiation and apoptosis. Homozygous knockout mice for this gene exhibit impaired angiogenesis and embryonic lethality. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]
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).