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Product datasheet for TG511095

Mmp13 Mouse shRNA Plasmid (Locus ID 17386)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Mmp13 Mouse shRNA Plasmid (Locus ID 17386)
Locus ID:	17386
Synonyms:	Cl; Clg; Mmp; MMP-1; MMP-13; Mmp1
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Mmp13 - Mouse, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 17386). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	BC125320, BC125322, NM_008607, NM_008607.1
UniProt ID:	P33435
Summary:	This gene encodes a member of the matrix metalloproteinase family that plays a role in wound healing, skeletal development and bone remodeling. The encoded protein is activated by the removal of an N-terminal activation peptide to generate a zinc-dependent endopeptidase enzyme that can cleave various native collagens, including types I - IV, X and XIV. Mice lacking the encoded protein display profound defects in growth plate cartilage as well as a delay in the endochondral bone development. Lack of the encoded protein also impairs the wound healing process due to reduced keratinocyte migration and vascular density at the wound site. This gene is located in a cluster of other matrix metalloproteinase genes on chromosome 9. [provided by RefSeq, Jun 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 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).