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Product datasheet for TR500091

Ang Mouse shRNA Plasmid (Locus ID 11727)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Ang Mouse shRNA Plasmid (Locus ID 11727)
Locus ID:	11727
Synonyms:	AI385586; An; Ang1; Rn; Rnase5; Rnase5a
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Ang - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 11727). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC055355, NM_001161731, NM_007447, NM_007447.1, NM_007447.2, NM_007447.3, NM_001161731.1, NM_001161731.2
UniProt ID:	P21570
Summary:	This gene encodes a member of the pancreatic ribonuclease A superfamily and is a potent inducer of neovascularization. The encoded protein is a secreted multifunctional tRNA-specific ribonuclease that promotes angiogenesis in response to angiogenetic stimuli such as hypoxia, mediates stress-induced translational repression by cleaving cellular tRNAs, stimulates cell proliferation by mediating rRNA transcription in prostate cancer cells, and is involved in neurite pathfinding. This gene resides in a cluster of highly related genes. It shares dual promoters and 5' exons with the ribonuclease, RNase A family 4 gene. Two alternatively spliced variants, with different 5' exons but the same coding exon, have been identified. Multiple pseudogenes have been found for this gene. [provided by RefSeq, Jun 2009]
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).