

Product datasheet for **TR501322**

Mdk Mouse shRNA Plasmid (Locus ID 17242)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Mdk Mouse shRNA Plasmid (Locus ID 17242)
Locus ID:	17242
Synonyms:	Mek; MK
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Mdk - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 17242). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC012244 , NM_001012335 , NM_001012336 , NM_001291481 , NM_001291482 , NM_001291483 , NM_010784 , NM_010784.1 , NM_010784.2 , NM_010784.3 , NM_010784.4 , NM_010784.5 , NM_001291483.1 , NM_001291482.1 , NM_001012335.1 , NM_001012335.2 , NM_001291481.1
UniProt ID:	P12025
Summary:	This gene encodes a secreted growth factor that belongs to the pleiotrophin/midkine heparin-binding protein family and functions in a variety of biological processes. The encoded cytokine promotes the growth, differentiation, survival and migration of several target cells including leucocytes involved in inflammation. This protein plays a role in the formation of scar tissue and intraperitoneal adhesions, and promotes neurite outgrowth and neuron survival. The protein encoded by this gene is associated with obesity and inhibition of insulin signaling in fat cells. A pseudogene of this gene is present on chromosome 11. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]
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).