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Product datasheet for TR502535

Nlrp5 Mouse shRNA Plasmid (Locus ID 23968)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Nlrp5 Mouse shRNA Plasmid (Locus ID 23968)
Locus ID:	23968
Synonyms:	Mat; Mater; N; Nalp5; O; Op1; PAN11
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Nlrp5 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 23968). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC053384, NM_001039143, NM_011860, NR_131241, NR_131242, NM_011860.1, NM_011860.2, NM_011860.3, NM_001039143.1, NM_001039143.2
UniProt ID:	Q9R1M5
Summary:	This gene encodes a member of the NACHT, leucine-rich repeat, and pyrin domain containing family. Members of this family have a pyrin domain at the N-terminus, a central NACHT domain, and a C-terminal leucine-rich repeat domain. This gene encodes a maternal-effect factor that is essential for early embryonic development in the mouse. Homozygous null mutant females are sterile, and embryos die following the first cleavage. This gene is required for endoplasmic reticulum redistribution and calcium homeostasis in oocytes. In addition, ovulated oocytes mutant for this gene have abnormal mitochondrial localization and increased mitochondrial activity, which results in mitochondrial damage and early embryonic lethality. Pseudogenes of this gene have been found on chromosomes 7 and 12. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 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).