

Product datasheet for **TR515595**

Gemin2 Mouse shRNA Plasmid (Locus ID 66603)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Gemin2 Mouse shRNA Plasmid (Locus ID 66603)
Locus ID:	66603
Synonyms:	gemin-2; S; Sip1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Gemin2 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector (Gene ID = 66603). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC053424 , NM_025656 , NM_025656.1 , NM_025656.2 , NM_025656.3 , NM_025656.4 , NM_025656.5
UniProt ID:	Q9CQQ4
Summary:	This gene encodes one of the proteins found in the survival of motor neuron (SMN) complex, which consists of the SMN protein and several gemin proteins. The SMN complex is localized to a subnuclear compartment called gems (gemini of coiled bodies) and is required for assembly of spliceosomal small nuclear ribonucleoproteins (snRNP) and for pre-mRNA splicing. This protein interacts directly with the SMN protein and it is required for formation of the SMN complex. Disruption of this gene in mouse resulted in impaired snRNP assembly, and motor neuron degeneration. [provided by RefSeq, Sep 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).