

## Product datasheet for **TR304304**

### Geminin (GMNN) Human shRNA Plasmid Kit (Locus ID 51053)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Geminin (GMNN) Human shRNA Plasmid Kit (Locus ID 51053)
Locus ID:	51053
Synonyms:	Gem; MGORS6
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	GMNN - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector (Gene ID = 51053). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001251989</a> , <a href="#">NM_001251990</a> , <a href="#">NM_001251991</a> , <a href="#">NM_015895</a> , <a href="#">NM_015895.1</a> , <a href="#">NM_015895.2</a> , <a href="#">NM_015895.3</a> , <a href="#">NM_015895.4</a> , <a href="#">NM_001251989.1</a> , <a href="#">NM_001251990.1</a> , <a href="#">NM_001251991.1</a> , <a href="#">BC005389</a> , <a href="#">BC005389.1</a> , <a href="#">BC005185</a> , <a href="#">BM699599</a> , <a href="#">NM_001251989.2</a> , <a href="#">NM_001251990.2</a> , <a href="#">NM_015895.5</a>
UniProt ID:	<a href="#">O75496</a>
Summary:	This gene encodes a protein that plays a critical role in cell cycle regulation. The encoded protein inhibits DNA replication by binding to DNA replication factor Cdt1, preventing the incorporation of minichromosome maintenance proteins into the pre-replication complex. The encoded protein is expressed during the S and G2 phases of the cell cycle and is degraded by the anaphase-promoting complex during the metaphase-anaphase transition. Increased expression of this gene may play a role in several malignancies including colon, rectal and breast cancer. Alternatively spliced transcript variants have been observed for this gene, and two pseudogenes of this gene are located on the short arm of chromosome 16. [provided by RefSeq, Oct 2011]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .


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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](mailto: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).