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Product datasheet for TR310168

Protamine 2 (PRM2) Human shRNA Plasmid Kit (Locus ID 5620)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Protamine 2 (PRM2) Human shRNA Plasmid Kit (Locus ID 5620)
Locus ID:	5620
Synonyms:	CT94.2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PRM2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 5620). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001286356, NM_001286357, NM_001286358, NM_001286359, NM_002762, NR_104428, NM_002762.1, NM_002762.2, NM_002762.3, NM_001286357.1, NM_001286359.1, NM_001286358.1, NM_001286356.1, BC066338, BC066338.1, BC005303, BC042671, NM_001286359.2, NM_001286356.2, NM_001286358.2, NM_002762.4, NM_001286357.2
UniProt ID:	P04554
Summary:	Protamines substitute for histones in the chromatin of sperm during the haploid phase of spermatogenesis, and are the major DNA-binding proteins in the nucleus of sperm in many vertebrates. They package the sperm DNA into a highly condensed complex in a volume less than 5% of a somatic cell nucleus. Many mammalian species have only one protamine (protamine 1); however, a few species, including human and mouse, have two. This gene encodes protamine 2, which is cleaved to give rise to a family of protamine 2 peptides. Alternatively spliced transcript variants have also been found for this gene. [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).