

## Product datasheet for **TR309159**

### Hyaluronidase PH20 (SPAM1) Human shRNA Plasmid Kit (Locus ID 6677)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Hyaluronidase PH20 (SPAM1) Human shRNA Plasmid Kit (Locus ID 6677)
Locus ID:	6677
Synonyms:	HEL-S-96n; HYA1; HYAL1; HYAL3; HYAL5; PH-20; PH20; SPAG15
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SPAM1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 6677). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001174044</a> , <a href="#">NM_001174045</a> , <a href="#">NM_001174046</a> , <a href="#">NM_003117</a> , <a href="#">NM_153189</a> , <a href="#">NM_003117.1</a> , <a href="#">NM_003117.2</a> , <a href="#">NM_003117.3</a> , <a href="#">NM_003117.4</a> , <a href="#">NM_153189.1</a> , <a href="#">NM_153189.2</a> , <a href="#">NM_001174044.1</a> , <a href="#">NM_001174045.1</a> , <a href="#">NM_001174046.1</a> , <a href="#">BC026163</a> , <a href="#">BC026163.1</a> , <a href="#">NM_153189.3</a> , <a href="#">NM_001174044.2</a>
UniProt ID:	<a href="#">P38567</a>
Summary:	Hyaluronidase degrades hyaluronic acid, a major structural proteoglycan found in extracellular matrices and basement membranes. Six members of the hyaluronidase family are clustered into two tightly linked groups on chromosome 3p21.3 and 7q31.3. This gene was previously referred to as HYAL1 and HYA1 and has since been assigned the official symbol SPAM1; another family member on chromosome 3p21.3 has been assigned HYAL1. This gene encodes a GPI-anchored enzyme located on the human sperm surface and inner acrosomal membrane. This multifunctional protein is a hyaluronidase that enables sperm to penetrate through the hyaluronic acid-rich cumulus cell layer surrounding the oocyte, a receptor that plays a role in hyaluronic acid induced cell signaling, and a receptor that is involved in sperm-zona pellucida adhesion. Abnormal expression of this gene in tumors has implicated this protein in degradation of basement membranes leading to tumor invasion and metastasis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]



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- 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](mailto:techsupport@origene.com). If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).
- 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).