

## Product datasheet for **TR310629**

### PAEP Human shRNA Plasmid Kit (Locus ID 5047)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	PAEP Human shRNA Plasmid Kit (Locus ID 5047)
Locus ID:	5047
Synonyms:	GD; GdA; GdF; GdS; PAEG; PEP; PP14; ZIF-1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PAEP - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 5047). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001018048</a> , <a href="#">NM_001018049</a> , <a href="#">NM_002571</a> , <a href="#">NM_002571.1</a> , <a href="#">NM_002571.2</a> , <a href="#">NM_002571.3</a> , <a href="#">NM_001018049.1</a> , <a href="#">NM_001018049.2</a> , <a href="#">BC069451</a> , <a href="#">BC069451.1</a> , <a href="#">BC113728</a> , <a href="#">BC069562</a> , <a href="#">BC112304</a> , <a href="#">NM_002571.4</a> , <a href="#">NM_001018049.3</a>
UniProt ID:	<a href="#">P09466</a>
Summary:	This gene is a member of the kernel lipocalin superfamily whose members share relatively low sequence similarity but have highly conserved exon/intron structure and three-dimensional protein folding. Most lipocalins are clustered on the long arm of chromosome 9. The encoded glycoprotein has been previously referred to as pregnancy-associated endometrial alpha-2-globulin, placental protein 14, and glycodelin, but has been officially named progestagen-associated endometrial protein. Three distinct forms, with identical protein backbones but different glycosylation profiles, are found in amniotic fluid, follicular fluid and seminal plasma of the reproductive system. These glycoproteins have distinct and essential roles in regulating a uterine environment suitable for pregnancy and in the timing and occurrence of the appropriate sequence of events in the fertilization process. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 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 <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).