

## Product datasheet for **TR317090**

### NARF Human shRNA Plasmid Kit (Locus ID 26502)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	NARF Human shRNA Plasmid Kit (Locus ID 26502)
Locus ID:	26502
Synonyms:	IOP2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	NARF - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 26502). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001038618</a> , <a href="#">NM_001083608</a> , <a href="#">NM_012336</a> , <a href="#">NM_031968</a> , <a href="#">NM_001083608.1</a> , <a href="#">NM_031968.1</a> , <a href="#">NM_031968.2</a> , <a href="#">NM_012336.1</a> , <a href="#">NM_012336.3</a> , <a href="#">NM_001038618.1</a> , <a href="#">NM_001038618.2</a> , <a href="#">BC016440</a> , <a href="#">BC000438</a> , <a href="#">NM_012336.4</a> , <a href="#">NM_001083608.2</a> , <a href="#">NM_001038618.3</a>
UniProt ID:	<a href="#">Q9UHQ1</a>
Summary:	Several proteins have been found to be prenylated and methylated at their carboxyl-terminal ends. Prenylation was initially believed to be important only for membrane attachment. However, another role for prenylation appears to be its importance in protein-protein interactions. The only nuclear proteins known to be prenylated in mammalian cells are prelamin A- and B-type lamins. Prelamin A is farnesylated and carboxymethylated on the cysteine residue of a carboxyl-terminal CaaX motif. This post-translationally modified cysteine residue is removed from prelamin A when it is endoproteolytically processed into mature lamin A. The protein encoded by this gene binds to the prenylated prelamin A carboxyl-terminal tail domain. It may be a component of a prelamin A endoprotease complex. The encoded protein is located in the nucleus, where it partially colocalizes with the nuclear lamina. It shares limited sequence similarity with iron-only bacterial hydrogenases. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene, including one with a novel exon that is generated by RNA editing. [provided by RefSeq, Jul 2008]


[View online »](#)

**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).