

## Product datasheet for **TR311279**

### NAALAD2 Human shRNA Plasmid Kit (Locus ID 10003)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	NAALAD2 Human shRNA Plasmid Kit (Locus ID 10003)
Locus ID:	10003
Synonyms:	GPCIII; GPCIII; NAADALASE2; NAALADASE2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	NAALAD2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 10003). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001300930</a> , <a href="#">NM_005467</a> , <a href="#">NM_005467.2</a> , <a href="#">NM_005467.3</a> , <a href="#">NM_001300930.1</a> , <a href="#">BC096316</a> , <a href="#">BC027594</a> , <a href="#">BC038840</a> , <a href="#">BC067793</a> , <a href="#">BC096317</a> , <a href="#">BC096318</a> , <a href="#">BC099646</a> , <a href="#">NM_001300930.2</a> , <a href="#">NM_005467.4</a>
UniProt ID:	<a href="#">Q9Y3Q0</a>
Summary:	This gene is a member of the N-acetylated alpha-linked acidic dipeptidase (NAALADase) gene family. The representative member of this family is the gene encoding human prostate-specific membrane antigen (PSM), which is a marker of prostatic carcinomas and is the first to be shown to possess NAALADase activity. NAALADase cleaves N-acetyl-L-aspartate-L-glutamate (NAAG), which is a neuropeptide expressed both in the central nervous systems and in the periphery and is thought to function as a neurotransmitter. The product of this gene is a type II integral membrane protein. Transient transfection of this gene confers both NAALADase and dipetidyl peptidase IV activities to mammalian cells. This gene is highly expressed in ovary and testis as well as within discrete brain areas. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]
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).