

## Product datasheet for **TR301880**

### RTN3 Human shRNA Plasmid Kit (Locus ID 10313)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	RTN3 Human shRNA Plasmid Kit (Locus ID 10313)
Locus ID:	10313
Synonyms:	ASYIP; HAP; NSPL2; NSPLII; RTN3-A1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	RTN3 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 10313). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001265589</a> , <a href="#">NM_001265590</a> , <a href="#">NM_001265591</a> , <a href="#">NM_006054</a> , <a href="#">NM_201428</a> , <a href="#">NM_201429</a> , <a href="#">NM_201430</a> , <a href="#">NR_049750</a> , <a href="#">NR_049751</a> , <a href="#">NM_006054.1</a> , <a href="#">NM_006054.2</a> , <a href="#">NM_006054.3</a> , <a href="#">NM_201429.1</a> , <a href="#">NM_201429.2</a> , <a href="#">NM_201430.1</a> , <a href="#">NM_201430.2</a> , <a href="#">NM_201428.1</a> , <a href="#">NM_201428.2</a> , <a href="#">NM_001265591.1</a> , <a href="#">NM_001265590.1</a> , <a href="#">NM_001265589.1</a> , <a href="#">BC000634</a> , <a href="#">BC000865</a> , <a href="#">BC010556</a> , <a href="#">BC011394</a> , <a href="#">BC022993</a> , <a href="#">BC100822</a> , <a href="#">BC100823</a> , <a href="#">BC105981</a> , <a href="#">BC105982</a> , <a href="#">BC118550</a> , <a href="#">BC118628</a> , <a href="#">BC148632</a> , <a href="#">NM_006054.4</a> , <a href="#">NM_001265589.2</a> , <a href="#">NM_001265590.2</a> , <a href="#">NM_201430.3</a> , <a href="#">NM_001265591.2</a> , <a href="#">NM_201428.3</a>
UniProt ID:	<a href="#">O95197</a>
Summary:	This gene belongs to the reticulon family of highly conserved genes that are preferentially expressed in neuroendocrine tissues. This family of proteins interact with, and modulate the activity of beta-amyloid converting enzyme 1 (BACE1), and the production of amyloid-beta. An increase in the expression of any reticulon protein substantially reduces the production of amyloid-beta, suggesting that reticulon proteins are negative modulators of BACE1 in cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene, and pseudogenes of this gene are located on chromosomes 4 and 12. [provided by RefSeq, May 2012]



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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).