

## **Product datasheet for TR301847**

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## SAMD8 Human shRNA Plasmid Kit (Locus ID 142891)

**Product data:** 

**Product Type:** shRNA Plasmids

**Product Name:** SAMD8 Human shRNA Plasmid Kit (Locus ID 142891)

**Locus ID:** 142891

**Synonyms:** HEL-177; SMSr

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

Components: SAMD8 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

142891). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: NM 001174156, NM 144660, NM 144660.1, NM 144660.2, NM 001174156.1, BC080593,

BC140219, BC146556, NM 144660.3, NM 001174156.2

UniProt ID: Q96LT4

**Summary:** Sphingomyelin synthases synthesize sphingolipids through transfer of a phosphatidyl head

group on to the primary hydroxyl of ceramide. SAMD8 is an endoplasmic reticulum (ER)

transferase that has no sphingomyelin synthase activity but can convert

phosphatidylethanolamine (PE) and ceramide to ceramide phosphoethanolamine (CPE) albeit

with low product yield. Appears to operate as a ceramide sensor to control ceramide

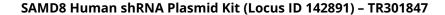
homeostasis in the endoplasmic reticulum rather than a converter of ceramides. Seems to be

critical for the integrity of the early secretory pathway.[UniProtKB/Swiss-Prot Function]

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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.







## 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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).