

Product datasheet for **TR510289**

Aph1a Mouse shRNA Plasmid (Locus ID 226548)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Aph1a Mouse shRNA Plasmid (Locus ID 226548)
Locus ID:	226548
Synonyms:	6530402N02Rik; APH-1a
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Aph1a - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 226548). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC012406 , BC024111 , BC057865 , NM_146104 , NM_146134 , NM_146134.1 , NM_146134.2 , NM_146104.1 , NM_146104.2 , NM_146104.3
UniProt ID:	Q8BVF7
Summary:	This gene encodes a subunit of the gamma-secretase complex, which is localized to the endoplasmic reticulum and golgi apparatus. Gamma-secretase is a multi-protein enzyme that catalyzes intramembraneous proteolysis of type I transmembrane proteins and is essential for many signaling pathways, including the Notch signaling pathway. Studies suggest that the protein encoded by this locus binds directly to substrates of the gamma-secretase complex, including the beta-amyloid precursor protein which is associated with Alzheimer disease progression. This gene is required for normal embryonic development and survival, and disruption is associated with defects in the yolk sack angiogenesis, neural tube formation, and somitogenesis. A pseudogene of this gene is located on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]
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 . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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