

Product datasheet for **TR306646**

APH1A Human shRNA Plasmid Kit (Locus ID 51107)

Product data:

Product Type:	shRNA Plasmids
Product Name:	APH1A Human shRNA Plasmid Kit (Locus ID 51107)
Locus ID:	51107
Synonyms:	6530402N02Rik; APH-1; APH-1A; CGI-78
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	APH1A - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 51107). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001077628 , NM_001243771 , NM_001243772 , NM_016022 , NR_045033 , NR_045034 , NR_045035 , NM_016022.1 , NM_016022.2 , NM_016022.3 , NM_001077628.1 , NM_001077628.2 , NM_001243771.1 , NM_001243772.1 , BC009501 , BC009501.2 , BC020590 , BC020590.1 , BC001230 , BC008732 , BC015568 , BC017699 , BC068606 , NM_001077628.3
UniProt ID:	Q96BI3
Summary:	This gene encodes a component of the gamma secretase complex that cleaves integral membrane proteins such as Notch receptors and beta-amyloid precursor protein. The gamma secretase complex contains this gene product, or the paralogous anterior pharynx defective 1 homolog B (APH1B), along with the presenilin, nicastrin, and presenilin enhancer-2 proteins. The precise function of this seven-transmembrane-domain protein is unknown though it is suspected of facilitating the association of nicastrin and presenilin in the gamma secretase complex as well as interacting with substrates of the gamma secretase complex prior to their proteolytic processing. Polymorphisms in a promoter region of this gene have been associated with an increased risk for developing sporadic Alzheimer's disease. Alternative splicing results in multiple protein-coding and non-protein-coding transcript variants. [provided by RefSeq, Aug 2011]



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