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Product datasheet for TR500116

Apoa1 Mouse shRNA Plasmid (Locus ID 11806)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Apoa1 Mouse shRNA Plasmid (Locus ID 11806)
Locus ID:	11806
Synonyms:	Al; Alp-1; Ap; apo-AI; Apoa-1; apoA-I; Brp-; Brp-14; Ltw-; Ltw-1; Lvtw; Lvtw-1; Se; Sep; Sep-1; Sep-2; Sep2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Apoa1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 11806). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC012253, BC019837, BC091745, NM_009692, NM_009692.1, NM_009692.2, NM_009692.3, NM_009692.4
UniProt ID:	Q00623
Summary:	This gene encodes a preproprotein that is proteolytically cleaved to yield a signal peptide and a propropteinthat is subsequently processed to generate the active mature peptide. The encoded protein is the major protein component of plasma high density lipoprotein (HDL). This protein facilitates the removal of cholesterol and other fats from tissues by transporting them to the liver for excretion. This protein is a cofactor for lecithin cholesterolacyltransferase, an enzyme that catalyzes the conversion of free cholesterol to cholesteryl esters. Mutations in this gene in humans causes familial HDL deficiency, Tangier disease and familial visceral amyloidosis. Similar clinical features are exhibited by mice with mutations in this gene. This gene is clustered with three other apolipoprotein genes on chromosome 9. [provided by RefSeq, Dec 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).