

Product datasheet for TR511004

Apobr Mouse shRNA Plasmid (Locus ID 171504)

Product data:

Product Type: shRNA Plasmids

Product Name: Apobr Mouse shRNA Plasmid (Locus ID 171504)

Locus ID: 171504

Synonyms: Apob-48r; Apob48r

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

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

171504). 5µg purified plasmid DNA per construct

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

RefSeq: BC030718, NM 138310, NM 138310.1

UniProt ID: Q8VBT6

Summary: Macrophage receptor that binds to the apolipoprotein B48 (APOB) of dietary triglyceride (TG)-

rich lipoproteins (TRL) or to a like domain of APOB in hypertriglyceridemic very low density

lipoprotein (HTG-VLDL). Binds and internalizes TRL when out of the context of the

macrophage. May provide essential lipids to reticuloendothelial cells. Could also be involved in foam cell formation with elevated TRL and remnant lipoprotein (RLP). Mediates the rapid high-affinity uptake of chylomicrons (CM), HTG-VLDL, and trypsinized (tryp) VLDL devoid of

APOE in vitro in macrophages.[UniProtKB/Swiss-Prot Function]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

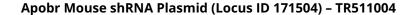
be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.



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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).