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Product datasheet for TR502787

Apln Mouse shRNA Plasmid (Locus ID 30878)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Apln Mouse shRNA Plasmid (Locus ID 30878)
Locus ID:	30878
Synonyms:	6030430G11Rik; Apel
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Apln - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 30878). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC020015, NM_013912, NM_013912.1, NM_013912.2, NM_013912.3, NM_013912.4
UniProt ID:	Q9R0R4
Summary:	This gene encodes the neuropeptide Apelin, an endogenous ligand of the G protein-coupled receptor APJ. This gene is highly expressed in the central nervous system and peripheral tissues and the encoded preproprotein undergoes proteolytic processing to generate mature peptides of different sizes that are secreted into the plasma. These peptides play important roles in a broad range of physiological processes such as cardiac contractility, blood pressure, blood vessel growth, appetite and drink behavior, and pituitary hormone secretion. Mice lacking the encoded protein develop progressive heart failure and exhibit a shorter bleeding time, prothrombotic profile and increased bone mass. [provided by RefSeq, Jul 2016]
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).