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Product datasheet for TR711419

Apln Rat shRNA Plasmid (Locus ID 58812)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Apln Rat shRNA Plasmid (Locus ID 58812)
Locus ID:	58812
Synonyms:	Apel
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Apln - Rat, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 58812). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_031612, NM_031612.1, NM_031612.2, NM_031612.3, BC080843
UniProt ID:	Q9R0R3
Summary:	Endogenous ligand for the apelin receptor (APLNR) (PubMed:11336787, PubMed:11359874, PubMed:26611206). Drives internalization of the apelin receptor (PubMed:11359874). Apelin-36 dissociates more hardly than (pyroglu)apelin-13 from APLNR (PubMed:11336787). Hormone involved in the regulation of cardiac precursor cell movements during gastrulation and heart morphogenesis (By similarity). Has an inhibitory effect on cytokine production in response to T-cell receptor/CD3 cross-linking; the oral intake of apelin in the colostrum and the milk might therefore modulate immune responses in neonates (By similarity). Plays a role in early coronary blood vessels formation (By similarity). Mediates myocardial contractility in an ERK1/2-dependent manner (PubMed:26611206). May also have a role in the central control of body fluid homeostasis by influencing vasopressin release and drinking behavior (PubMed:10617103, PubMed:11359874).[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 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).