Product datasheet for TR709257

Npy Rat shRNA Plasmid (Locus ID 24604)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Npy Rat shRNA Plasmid (Locus ID 24604)
Locus ID:	24604
Synonyms:	NPY02; RATNPY; RATNPY02
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Npy - Rat, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 24604). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_012614, NM_012614.1, NM_012614.2
UniProt ID:	P07808
Summary:	This gene encodes a neuropeptide that is widely expressed in the central nervous system and influences many physiological processes, including cortical excitability, stress response, food intake, circadian rhythms, and cardiovascular function. Studies in the rat model of depression (Flinders Sensitive Line) show that this gene is downregulated in the hippocampus and the prefrontal cortex compared to the control ((Flinders Resistant Line). Alternatively spliced transcript variants of this gene have been described, but the function of all the variants is not known. [provided by RefSeq, Jul 2012]
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).