

Product datasheet for **TR506161**

Gpr37l1 Mouse shRNA Plasmid (Locus ID 171469)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Gpr37l1 Mouse shRNA Plasmid (Locus ID 171469)
Locus ID:	171469
Synonyms:	AW047233; CAG-18; DOKist8
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Gpr37l1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 171469). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC098482 , BC127619 , BC127620 , NM_134438 , NM_134438.1 , NM_134438.2 , NM_134438.3
UniProt ID:	Q99JG2
Summary:	G-protein coupled receptor (PubMed:27072655). Has been shown to bind the neuroprotective and glioprotective factor prosaposin (PSAP), leading to endocytosis followed by an ERK phosphorylation cascade (By similarity). However, other studies have shown that prosaposin does not increase activity (By similarity). It has been suggested that GPR37L1 is a constitutively active receptor which signals through the guanine nucleotide-binding protein G(s) subunit alpha (By similarity). Participates in the regulation of postnatal cerebellar development by modulating the Shh pathway (PubMed:24062445). Regulates baseline blood pressure in females and protects against cardiovascular stress in males (PubMed:29625592). Mediates inhibition of astrocyte glutamate transporters and reduction in neuronal N-methyl-D-aspartate receptor activity (PubMed:28795439).[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).