

Datasheet for ABIN3729129

Human LPAR5 shRNA in Retroviral Vector (GFP tag)

4 Publications

Overview

Quantity:	1 kit
Gene:	LPAR5
Species:	Human
Fusion tag:	GFP tag
Insert:	shRNA
Vector:	Retroviral Vector
Application:	RNA Interference (RNAi)

Product Details

Purpose:	Pre-designed Hush-29 shRNAs in viral vectors with proven effectiveness for knock-down of Human LPAR5.
Brand:	HuSH-29™
Vector Backbone:	pGFP-V-RS
Promoter:	U6 Promoter
Selectable Marker:	Puromycin
Bacterial Resistance:	Kanamycin
Expression Type:	Transient, Stable
Specificity:	<ul style="list-style-type: none"> The HuSH shRNA gene-specific expression cassettes were optimized to include both the termination signal for RNA Pol III and GC content targeted at 50 % to further improve the quality of the gene-specific shRNA expression vectors. 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.

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Product Details

- Characteristics:
- The shRNA gene-specific expression cassettes are prepared using synthetic oligonucleotides.
 - These oligonucleotide sequences were computer designed for optimal suppression of gene expression and minimal off-target effects.
 - All shRNA sequences are verified through DNA sequencing analysis.

- Components:
- Gene-specific shRNA in pGFPC-shLenti vector, 4 unique constructs per gene, 5 ug per vial.
 - HuSH 29-mer Scrambled in pGFP-C-shLenti 5 ug plasmid DNA.

Target Details

- Gene: LPAR5
- Alternative Name: LPAR5 ([LPAR5 Products](#))

Application Details

- Application Notes:
- 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..

- Restrictions: For Research Use only

Handling

- Format: Lyophilized
- Storage: 4 °C/-20 °C
- Storage Comment: The dried plasmids can be stored at 4°C. However, once reconstituted with dH₂O, the plasmids must be stored at -20°C.

Publications

Product cited in: Ishii, Hirane, Fukushima, Tomimatsu, Fukushima, Tsujiuchi: "Diverse effects of LPA4, LPA5 and LPA6 on the activation of tumor progression in pancreatic cancer cells." in: **Biochemical and biophysical research communications**, Vol. 461, Issue 1, pp. 59-64, (2015) ([PubMed](#)).

Dong, Hirane, Araki, Fukushima, Tsujiuchi: "Lysophosphatidic acid receptor-5 negatively regulates cellular responses in mouse fibroblast 3T3 cells." in: **Biochemical and biophysical research communications**, Vol. 446, Issue 2, pp. 585-9, (2014) ([PubMed](#)).

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Dong, Hirane, Araki, Fukushima, Honoki, Tsujiuchi: "Lysophosphatidic acid receptor-5 negatively regulates cell motile and invasive activities of human sarcoma cell lines." in: **Molecular and cellular biochemistry**, Vol. 393, Issue 1-2, pp. 17-22, (2014) ([PubMed](#)).

Araki, Kitayoshi, Dong, Hirane, Ozaki, Mori, Fukushima, Honoki, Tsujiuchi: "Inhibitory effects of lysophosphatidic acid receptor-5 on cellular functions of sarcoma cells." in: **Growth factors (Chur, Switzerland)**, Vol. 32, Issue 3-4, pp. 117-22, (2014) ([PubMed](#)).