

Datasheet for ABIN3726332

Human SPHK1 shRNA in Retroviral Vector (GFP tag)

1 Publication

Overview

Quantity:	1 kit
Gene:	SPHK1
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 SPHK1.
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:	<ul style="list-style-type: none">• 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.
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Components:	<ul style="list-style-type: none">• 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.
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Target Details

Gene:	SPHK1
Alternative Name:	SPHK1 (SPHK1 Products)

Application Details

Application Notes:	<ul style="list-style-type: none">• 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..
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Restrictions:	For Research Use only
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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:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)
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