

Datasheet for ABIN3738514

Human CTBS shRNA in Retroviral Vector (GFP tag)

Overview

Quantity:	1 kit
Gene:	CTBS
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 CTBS.
Brand:	HuSH-29™
Vector Backbone:	pGFP-V-RS
Promoter:	U6 Promoter
Selectable Marker:	Puromycin
Bacterial Resistance:	Kanamycin
Expression Type:	Transient, Stable
Specificity:	- 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.
Characteristics:	The shRNA gene-specific expression cassettes are prepared using synthetic

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Product Details

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: CTBS

Alternative Name: CTBS ([CTBS 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: Fachinetti, Folco, Nechemia-Arbely, Valente, Nguyen, Wong, Zhu, Holland, Desai, Jansen, Cleveland: "A two-step mechanism for epigenetic specification of centromere identity and function." in: **Nature cell biology**, Vol. 15, Issue 9, pp. 1056-66, (2013) ([PubMed](#)).