

Datasheet for ABIN3738491

## Human CTSG shRNA in Retroviral Vector (GFP tag)

### Overview

|              |                         |
|--------------|-------------------------|
| Quantity:    | 1 kit                   |
| Gene:        | Cathepsin G (CTSG)      |
| 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 CTSG.                                                                                                                                                                                                                                                                                                                                                                     |
| 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"> <li>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.</li> <li>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.</li> </ul> |
| Characteristics:      | <ul style="list-style-type: none"> <li>The shRNA gene-specific expression cassettes are prepared using synthetic</li> </ul>                                                                                                                                                                                                                                                                                                                                              |

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## Product Details

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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:

- 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

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Gene: Cathepsin G (CTSG)

Alternative Name: CTSG ([CTSG Products](#))

## Application Details

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- 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..

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Restrictions: For Research Use only

## Handling

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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

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)