

Datasheet for ABIN3554841

Rat IGHG shRNA in Retroviral Vector (RFP tag)

Overview

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|--------------|-------------------------|
| Quantity: | 1 kit |
| Gene: | IGHG |
| Species: | Rat |
| Fusion tag: | RFP tag |
| Insert: | shRNA |
| Vector: | Retroviral Vector |
| Application: | RNA Interference (RNAi) |

Product Details

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|-----------------------|--|
| Purpose: | Pre-designed Hush-29 shRNAs in viral vectors with proven effectiveness for knock-down of Rat Ighg. |
| Brand: | HuSH-29™ |
| Vector Backbone: | pRFP-C-RS |
| Promoter: | U6 Promoter |
| Selectable Marker: | Puromycin |
| Bacterial Resistance: | Chloramphenicol |
| 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. |
| Characteristics: | <ul style="list-style-type: none"> 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 expression pRFP-C-RS vectors, 5 ug plasmid DNA per vial.
- Four unique constructs per gene.
- HuSH 29-mer NonEffective Scrambled pGFP-VRS 5 ug plasmid DNA.
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Target Details

Gene: IGHG

Alternative Name: Ighg ([IGHG 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: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)