

Datasheet for ABIN3661881

Human GAGE12H shRNA in Retroviral Vector

Overview

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| Quantity: | 1 kit |
| Gene: | G Antigen 12H (GAGE12H) |
| Species: | Human |
| 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 Human GAGE12H. |
| Brand: | HuSH-29™ |
| Vector Backbone: | pRS |
| Promoter: | U6 Promoter |
| Selectable Marker: | Puromycin |
| Bacterial Resistance: | Ampicillin |
| 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 oligonucleotides. These oligonucleotide sequences were computer designed for optimal suppression of gene |

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Product Details

- expression and minimal off-target effects.
- All shRNA sequences are verified through DNA sequencing analysis.

Components:

- Gene-specific shRNA expression pRS vectors, 5 ug plasmid DNA per vial.
- Four unique constructs per gene.
- HuSH 29-mer NonEffective Scrambled pRS 5 ug plasmid DNA.
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Target Details

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| Gene: | G Antigen 12H (GAGE12H) |
| Alternative Name: | GAGE12H (GAGE12H Products) |

Application Details

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| 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

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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) |
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