Datasheet for ABIN3661877

# Human GAGE12J shRNA in Retroviral Vector

## Overview

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| Quantity: | 1 kit |
| Gene: | G Antigen 12J (GAGE12J) |
| 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 GAGE12J. |
| Brand: | HuSH-29™ |
| Vector Backbone: | pRS |
| Promoter: | U6 Promoter |
| Selectable Marker: | Puromycin |
| Bacterial Resistance: | Ampicillin |
| 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.<br>• 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 oligonucleotides.<br>• These oligonucleotide sequences were computer designed for optimal suppression of gene |

## Product Details

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| | expression and minimal off-target effects.<br>• All shRNA sequences are verified through DNA sequencing analysis. |
| Components: | • Gene-specific shRNA expression pRS vectors, 5 ug plasmid DNA per vial.<br>• Four unique constructs per gene.<br>• HuSH 29-mer NonEffective Scrambled pRS 5 ug plasmid DNA.<br>• |

## Target Details

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| Gene: | G Antigen 12J (GAGE12J) |
| Alternative Name: | GAGE12J |

## 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.<br>• 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

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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) |