

Datasheet for ABIN3734059

## Human SOD2 shRNA in Retroviral Vector (GFP tag)

### 4 Publications

#### Overview

|              |                         |
|--------------|-------------------------|
| Quantity:    | 1 kit                   |
| Gene:        | SOD2                    |
| 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 SOD2.   |
| 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> |

Order at [www.genomics-online.com](http://www.genomics-online.com)

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## Product Details

|                  |   |
|------------------|---|
| Characteristics: | <ul style="list-style-type: none"><li>• The shRNA gene-specific expression cassettes are prepared using synthetic oligonucleotides.</li><li>• These oligonucleotide sequences were computer designed for optimal suppression of gene expression and minimal off-target effects.</li><li>• All shRNA sequences are verified through DNA sequencing analysis.</li></ul> |
|------------------|---|

|             |   |
|-------------|---|
| Components: | <ul style="list-style-type: none"><li>• Gene-specific shRNA in pGFPC-shLenti vector, 4 unique constructs per gene, 5 ug per vial.</li><li>• HuSH 29-mer Scrambled in pGFP-C-shLenti 5 ug plasmid DNA.</li></ul> |
|-------------|---|

## Target Details

|                   |  |
|-------------------|--|
| Gene:             | SOD2                                   |
| Alternative Name: | SOD2 ( <a href="#">SOD2 Products</a> ) |

## Application Details

|                    |   |
|--------------------|---|
| Application Notes: | <ul style="list-style-type: none"><li>• Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection.</li><li>• 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..</li></ul> |
|--------------------|---|

|               |                       |
|---------------|-----------------------|
| 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) |
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