

Datasheet for ABIN5212978

## Mouse SMURF1 CRISPR gRNA + Cas9 in Lenti Particles

### Overview

|              |  |
|--------------|--|
| Quantity:    | 300 µL   |
| Gene:        | SMURF1   |
| Species:     | Mouse  |
| Insert:      | gRNA + Cas9  |
| Vector:      | Lentiviral Vector  |
| Application: | Protein Expression (PExp), Genome Editing with Engineered Nucleases (GEEN) |

### Product Details

|                       |  |
|-----------------------|--|
| Purpose:              | Individual gRNA against Smurf1 in Lentiviral Particles with a Titer of >1x10 <sup>7</sup> IU/mL. (sgRNA and Cas9 in a single vector)   |
| Vector Backbone:      | pLenti-U6-sgRNA-SFFV-Cas9-2A-Puro  |
| Promoter:             | U6 Promoter, SFFV Promoter   |
| Selectable Marker:    | Puromycin  |
| Bacterial Resistance: | Ampicillin   |
| Expression Type:      | Stable, Transient  |
| Sequence:             | Sequence available upon placing order  |
| Specificity:          | GRNAs are designed for use with Cas9 Nuclease only.<br>Cas9 Nuclease is under the control of the SFFV promoter which should work for a vast majority of cells, except ES cells or iPS cells. |
| Sequencing Primer:    | U6 Forward Primer: 5'--TACGTCCAAGGTCGGGCAGGAAGA--3'  |
| Components:           | Lentiviral particles with an individual gRNA (300 µL) for a specific sequence of Smurf1  |

## Target Details

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|                   |  |
|-------------------|--|
| Gene:             | SMURF1                                     |
| Alternative Name: | Smurf1 ( <a href="#">SMURF1 Products</a> ) |
| NCBI Accession:   | <a href="#">NM_001038627</a>               |

## Application Details

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|--------------------|---|
| Application Notes: | Recommended for quality control: Restriction Enzyme Digest and Sequencing |
| Restrictions:      | For Research Use only   |

## Handling

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|--------------|-----------------|
| Format:      | Viral Particles |
| Storage:     | -80 °C          |
| Expiry Date: | 12 months       |

## 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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