

Datasheet for ABIN5198624

## Rat ACTG2 CRISPR gRNA + Cas9 in Lenti Particles

### Overview

|              |                                                                            |
|--------------|----------------------------------------------------------------------------|
| Quantity:    | 300 µL                                                                     |
| Gene:        | ACTG2                                                                      |
| Species:     | Rat                                                                        |
| Insert:      | gRNA + Cas9                                                                |
| Vector:      | Lentiviral Vector                                                          |
| Application: | Protein Expression (PExp), Genome Editing with Engineered Nucleases (GEEN) |

### Product Details

|                       |                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:              | Individual gRNA against Actg2 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 Actg2                                                                                                       |

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

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## Target Details

|                   |                                          |
|-------------------|------------------------------------------|
| Gene:             | ACTG2                                    |
| Alternative Name: | Actg2 ( <a href="#">ACTG2 Products</a> ) |
| NCBI Accession:   | <a href="#">NM_012893</a>                |

## Application Details

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

## Handling

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

## Publications

|                   |                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------|
| Product cited in: | Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991) |
|-------------------|-------------------------------------------------------------------------------------------------------|