

Datasheet for ABIN5222400

## Human GNAT1 CRISPR gRNA + Cas9 in Lenti Particles

### Overview

|              |                                                                            |
|--------------|----------------------------------------------------------------------------|
| Quantity:    | 300 µL                                                                     |
| Gene:        | GNAT1                                                                      |
| Species:     | Human                                                                      |
| Insert:      | gRNA + Cas9                                                                |
| Vector:      | Lentiviral Vector                                                          |
| Application: | Protein Expression (PExp), Genome Editing with Engineered Nucleases (GEEN) |

### Product Details

|                       |                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:              | Individual gRNA against GNAT1 in Lentiviral Particles with a Titer of >1x10e7 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 GNAT1                                                                                                       |

## Target Details

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Gene: GNAT1

Alternative Name: GNAT1 ([GNAT1 Products](#))

NCBI Accession: [NM\\_000172](#)

## 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)