

Datasheet for ABIN5230371

Rat **CACNA1A** CRISPR gRNA + Cas9 in Lenti Particles

Overview

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| Quantity: | 3 x 300 µL |
| Gene: | CACNA1A |
| Species: | Rat |
| Insert: | gRNA + Cas9 |
| Vector: | Lentiviral Vector |
| Application: | Protein Expression (PEXP), Genome Editing with Engineered Nucleases (GEEN) |

Product Details

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| Purpose: | Set of 3 gRNA against Cacna1a 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. 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 a set of 3 gRNAs (3 x 300 µL) covering different sequences of Cacna1a |

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Target Details

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| Gene: | CACNA1A |
| Alternative Name: | Cacna1a (CACNA1A Products) |
| NCBI Accession: | NM_012918 |

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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