

Datasheet for ABIN5266605

Rat SMC1A CRISPR gRNA + Cas9 in Lenti Particles

Overview

Quantity:	300 µL
Gene:	SMC1A
Species:	Rat
Insert:	gRNA + Cas9
Vector:	Lentiviral Vector
Application:	Protein Expression (PEXP), Genome Editing with Engineered Nucleases (GEEN)

Product Details

Purpose:	Individual gRNA against Smc1a 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 an individual gRNA (300 µL) for a specific sequence of Smc1a

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Target Details

Gene: SMC1A

Alternative Name: Smc1a ([SMC1A Products](#))

NCBI Accession: [NM_031683](#)

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)