

Product Analysis Certificate

Control Lentiviral CRISPR sgRNA Construct
sgNT Control in pRSG16-U6-sg-UbiC-TagRFP-2A-Puro (packaged)
Reorder/Cat.# SGCTL-NT-pRSG16-V



Control Lentiviral CRISPR sgRNA Construct

Shipment Contents: Control Lentiviral CRISPR sgRNA Construct
sgNT Control in pRSG16-U6-sg-UbiC-TagRFP-2A-Puro (packaged)
— Store at -80°C

Description:

Cellecta's two-vector CRISPR/Cas9 system can be used for knocking out gene expression *in vivo* or *in vitro* by using a combination of an sgRNA (single guide RNA) expression vector along with a Cas9 nuclease expression vector. Permanent 100% knockout can be achieved in virtually any cell line by using Cellecta's lentiviral-based CRISPR constructs. Expression of both the sgRNA and Cas9 is stable, and the system can be used in dividing or non-dividing cells or whole model organisms.

Cas9-only Expression Vectors are available separately from Cellecta:

- pRCCB-CMV-Cas9-2A-Blast, Cat.#s SVC9B-PS (plasmid, 25 µg), SVC9B-VS (packaged, 1×10^6 TU)
- pRCCB-CMV-Cas9-2A-Hygro, Cat.#s SVC9-PS (plasmid, 25 µg), SVC9-VS (packaged, 1×10^6 TU)
- pRCCG-CMV-Cas9-2A-TagGFP2, Cat.#s SVC9G-PS (plasmid, 25 µg), SVC9G-VS (packaged, 1×10^6 TU)

The Control Lentiviral NT sgRNA Construct expresses an sgRNA that does not target any known human, mouse, or rat genes.

The titer of packaged constructs is functionally determined by transduction of 293T cells and either FACS of RFP- or GFP-positive cells, antibiotic selection assay, or by PCR titering of integrated viral DNA.

Biosafety Level: BSL-2

Storage: -80°C

Shelf Life: 1 year from date of receipt

Shipping Conditions: Dry Ice

Product Information (Cellecta Website):

User Manual: <https://www.cellecta.com/product-manuals-and-certificates/>
Vector Info (Sequence, etc.): <https://www.cellecta.com/vector-information/>

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Contents:

Catalog #	Description
SGCTL-NT-pRSG16-V (pRSG16)	Control Lentiviral CRISPR sgRNA Expression Construct sgNT Control in pRSG16-U6-sg-UbiC-TagRFP-2A-Puro (packaged) Gene ID: n/a Reorder/Cat.#: SGCTL-NT-pRSG16-V 1.44 × 10⁷ TU, 5.75 × 10⁷ TU/ml (250 µl total: 250 µl × 1 vial) Lot# 17022813; Store at -80°C
Target Sequence:	GGCAGTCGTTCCGGTTGATAT
Insert Sequence + tracrRNA:	ACCG GGCAGTCGTTCCGGTTGATAT GTGTTTAAGAGCTATGCTGGAAACAGCATAGCAAGTTTAAATAAGGCT AGTCCGTTATCAACTTGAAAAAGTGGCACCGAGTCGGTGCTTTTTTCG
Sequencing QC:	NNNTCTTGNGTAGTTTGCAGTTTTAAAAATTATGTTTTAAAATGGACTATCATATGCTTACCGTAACTTGA AAGTATTTTCGATTTCTTGGCTTTATATATCTTGTGGAAAGGACGAAACACCGGGCAGTCGTTCCGGTTGAT ATGTTTAAGAGCTATGCTGGAAACAGCATAGCAAGTTTAAATAAGGCTAGTCCGTTATCAACTGAAAAA GTGGCACCGAGTCGGTGCTTTTTTCGGACTGTAGAACTCTGAACCTCGAGCAATTTAAAAGAAAAGGGGG GATGGGGGTACAGTGCAGGGGAAGAATAGTAGACATAATAGNNCNAACCATACAA
Sequencing Primer:	ATTAGTACAAAATACGTGACGTAGAA (U6-3)

Design of Collecta sgRNA Constructs:

ACCG-sgRNA-tracrRNA-TTTCG

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Terms and Conditions

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