

## 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,  $1 \times 10^6$  TU)
- pRCCB-CMV-Cas9-2A-Hygro, Cat.#s SVC9-PS (plasmid, 25 µg), SVC9-VS (packaged,  $1 \times 10^6$  TU)
- pRCCG-CMV-Cas9-2A-TagGFP2, Cat.#s SVC9G-PS (plasmid, 25 µg), SVC9G-VS (packaged,  $1 \times 10^6$  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)	<b>Control Lentiviral CRISPR sgRNA Expression Construct</b> sgNT Control in pRSG16-U6-sg-UbiC-TagRFP-2A-Puro (packaged) Gene ID: n/a Reorder/Cat.#: SGCTL-NT-pRSG16-V <b>3.76 × 10<sup>7</sup> TU</b> , 2.09 × 10 <sup>7</sup> TU/ml (1800 µl total: 1800 µl × 1 vial) Lot# 180613021; Store at -80°C
Target Sequence:	GGCAGTCGTTTCGGTTGATAT
<b>Insert Sequence +</b> tracrRNA:	ACCG <b>GGCAGTCGTTTCGGTTGATAT</b> GTGTTTAAGAGCTATGCTGGAAACAGCATAGCAAGTTTAAATAAGGCT AGTCCGTTATCAACTTGAAAAAGTGGCACCGAGTCGGTGCTTTTTTCG
Sequencing QC:	NNNTCTTGNGTAGTTTGCAGTTTTAAAAATTATGTTTTAAAAATGGACTATCATATGCTTACCGTAACTTGA AAGTATTTTCGATTTCTTGGCTTTATATATCTTGTGGAAAGGACGAAACACCGGGCAGTCGTTCCGTTGAT ATGTTTAAGAGCTATGCTGGAAACAGCATAGCAAGTTTAAATAAGGCTAGTCCGTTATCAACTGAAAAA GTGGCACCGAGTCGGTGCTTTTTTCGGACTGTAGAACTCTGAACCTCGAGCAATTTAAAGAAAAGGGGG GATGGGGGGTACAGTGCAGGGGAAAGAATAGTAGACATAATAGNNCNAACCATACAA
Sequencing Primer:	ATTAGTACAAAATACGTGACGTAGAA (U6-3)

### Design of Collecta sgRNA Constructs:

ACCG-sgRNA-tracrRNA-TTTCG

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