

## Product Analysis Certificate

Control Lentiviral CRISPR sgRNA Construct  
sgNT Control in pRSG17-U6-sg-UbiC-TagGFP2-2A-Puro (packaged)  
Reorder/Cat.# SGCTL-NT-pRSG17-V



### Control Lentiviral CRISPR sgRNA Construct

**Shipment Contents:** Control Lentiviral CRISPR sgRNA Construct  
sgNT Control in pRSG17-U6-sg-UbiC-TagGFP2-2A-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 plasmid. 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 Expression Plasmids are available separately from Cellecta:

- pRCCB-CMV-Cas9-2A-Blast, Cat.#s SVC9B-PS (plasmid, 25 µg), SVC9B-VS (packaged, 1 × 10<sup>6</sup> TU)
- pRCCH-CMV-Cas9-2A-Hygro, Cat.#s SVC9-PS (plasmid, 25 µg), SVC9-VS (packaged, 1 × 10<sup>6</sup> TU)
- pRCCG-CMV-Cas9-2A-TagGFP2, Cat.#s SVC9G-PS (plasmid, 25 µg), SVC9G-VS (packaged, 1 × 10<sup>6</sup> 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 # / Reorder #	Description
SGCTL-NT-pRSG17-V	<b>Control Lentiviral CRISPR sgRNA Expression Construct</b> sgNT Control in pRSG17-U6-sg-UbiC-TagGFP2-2A-Puro (packaged) Gene ID: n/a <b>6.60 × 10<sup>7</sup> TU</b> , 1.32 × 10 <sup>8</sup> TU/ml (500 µl total: 250 µl × 2 vials) Lot# 180509003; Store at -80°C
Target Sequence:	GGCAGTCGTTCGGTTGATAT
<b>Insert Sequence</b> + tracrRNA:	ACCGGGCAGTCGTTTCGGTTGATATGTTTAAAGAGCTATGCTGGAAACAGCATAGCAAGTTTAAATAAGGCT AGTCCGTTATCAACTTGAAAAAGTGGCACCGAGTCGGTGCTTTTTTCG
Sequencing QC:	NNNNNGNAGTTTGCAGTTTTAAATTTATGTTTAAATGGACTATCATATGCTTACCGTAACTTGAAA GTATTCGATTTCTGGCTTTATATATCTTGTGGAAAGGACGAAACACCGGGCAGTCGTTTCGGTTGATAT GTTTAAAGAGCTATGCTGGAAACAGCATAGCAAGTTTAAATAAGGCTAGTCCGTTATCAACTTGAAAAAGT GGCACCGAGTCGGTGCTTTTTTCGGACTGTAGAACTCTGAACCTCGAGCAATTTAAAAGAAAAGGGGGGA TTGGGGGTACAGTGCAGGGGAAAGAATAGTAGACATAATAGCAACAGACATACAA2
Sequencing Primer:	ATTAGTACAAAATACGTGACGTAGAA (U6-3)

### Design of Collecta sgRNA Constructs:

ACCG-sgRNA-tracrRNA-TTCG

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## Terms and Conditions

### Collecta, Inc. Limited License

Collecta grants the end user (the "Recipient") of the Control CRISPR sgRNA Construct (the "Product") a non-transferable, non-exclusive license to use the reagents for internal research use only as described in the enclosed protocols; in particular, research use only excludes and without limitation, resale, repackaging, or use for the making or selling of any commercial product or service without the written approval of Collecta, Inc. -- separate licenses are available for non-research use or applications. The Product is not to be used for human diagnostics or included/used in any drug intended for human use. Care and attention should be exercised in handling the Product by following appropriate research laboratory practices.

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