

## Product Analysis Certificate

Control Lentiviral CRISPR sgRNA Construct  
sg\_CopGFP\_D1 Control in pRSG17-U6-sg-UbiC-TagGFP2-2A-Puro (packaged)  
Reorder/Cat.# SGCTL-COP-pRSG17-V



### Control Lentiviral CRISPR sgRNA Construct

**Shipment Contents:** Control Lentiviral CRISPR sgRNA Construct  
sg\_CopGFP\_D1 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-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)
- pRCCH-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)
- pRCCR-CMV-Cas9-2A-TagRFP, Cat.#s SVC9R-PS (plasmid, 25 µg), SVC9R-VS (packaged,  $1 \times 10^6$  TU)
- pRCCP-CMV-Cas9-2A-Puro, Cat.#s SVC9P-PS (plasmid, 25 µg), SVC9P-VS (packaged,  $1 \times 10^6$  TU)

The Control Lentiviral CopGFP sgRNA Construct expresses an sgRNA that targets a variant of destabilized CopGFP:

- CRISPR Target for sgCopGFP Control (pRR-CMV-dscGFP-EF1-Bleo)
  - Cat.# SVCOPG-P (plasmid, 25 µg)
  - Cat.# SVCOPG-V (packaged,  $1 \times 10^7$  TU)

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-COP-pRSG17-V	<b>Control Lentiviral CRISPR sgRNA Expression Construct</b> sg_CopGFP_D1 Control in pRSG17-U6-sg-UbiC-TagGFP2-2A-Puro (packaged) Gene ID: n/a Packaged, $>1 \times 10^7$ TU: <b><math>2.22 \times 10^7</math> TU</b> , $8.86 \times 10^7$ TU/ml (250 $\mu$ l total: 250 $\mu$ l $\times$ 1 vial) Lot# 17081709; Store at -80°C
Target Sequence:	AAGATCGAGTGCCGCATCAC
Insert Sequence: <b>gRNA</b> + tracrRNA:	ACCG <b>AAGATCGAGTGCCGCATCAC</b> GTTTAAAGAGCTATGCTGGAAACAGCATAGCAAGTTAAATAAAGGCT AGTCCGTTATCAACTTGAAAAAGTGGCACCCGAGTCGGTGCTTTTTCG
Sequencing QC:	TBA
Sequencing Primer:	ATTAGTACAAAATACGTGACGTAGAA (U6-3)

### Design of Collecta sgRNA Constructs:

ACCG-gRNA-tracrRNA-TTCG

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