

Product Analysis Certificate

Control Lentiviral CRISPR sgRNA Construct
sg_CopGFP_D1 Control in pRSG16-U6-sg-UbiC-TagRFP-2A-Puro (packaged)
Cat.# SGCTL-COP-pRSG16-V



Control Lentiviral CRISPR sgRNA Construct

Shipment Contents: Control Lentiviral CRISPR sgRNA Construct
sg_CopGFP_D1 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)
- pRCCH-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 CopGFP sgRNA Construct expresses an sgRNA that targets a variant of destabilized CopGFP. It 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-COP-pRSG16-V | Control Lentiviral CRISPR sgRNA Expression Construct sg_CopGFP_D1 Control in pRSG16-U6-sg-UbiC-TagRFP-2A-Puro (packaged) Gene ID: n/a <u>Packaged. $>1 \times 10^7$ TU:</u> 1.79×10^7 TU , 3.57×10^7 TU/ml (250 μ l total: 250 μ l \times 2 vials) Lot# 17030108; Store at -80°C |
| Target Sequence: | AAGATCGAGTGCCGCATCAC |
| Insert Sequence: gRNA + tracrRNA: | ACCG <u>AAGATCGAGTGCCGCATCAC</u> CGTTTAAAGAGCTATGCTGGAAACAGCATAGCAAGTTAAATAAGGCT AGTCCGTTATCAACTTGAAAAAGTGGCACCGAGTCGGTGCTTTTTTCG |
| Sequencing QC: | ANNFNNTNGGGTAGTTTGCAGTTTANATTATGTTTTAAAATGGACTATCATATGCTTACCGTAACTTG AAAGTATTTTCGATTTCTTGGCTTTATATATCTTGTGGAAAGGACGAAACACCGAAGATCGAGTGCCGCAT CACGTTTAAAGAGCTATGCTGGAAACAGCATAGCAAGTTAAATAAGGCTAGTCCGTTATCAACTTGAAAA AGTGGCACCGAGTCGGTGCTTTTTTCGGACTGTAGAACTCTGAACCTCGAGCAATTTAAAAGAAAAGGGG GGATTGGGGGTACAGTGCAGGGAAAGAATAGTAGACATAATAGCAACAGACATACAA |
| Sequencing Primer: | ATTAGTACAAAATACGTGACGTAGAA (U6-3) |

Design of Collecta sgRNA Constructs:

ACCG-gRNA-tracrRNA-TTCG

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Terms and Conditions

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