

Product Analysis Certificate

Control Lentiviral CRISPR sgRNA Construct
Empty Control pRSG16-U6-XX-UbiC-TagRFP-2A-Puro (packaged)
Reorder# SGCTL-XX-pRSG16-V



Control Lentiviral CRISPR sgRNA Construct

Shipment Contents: Control Lentiviral CRISPR sgRNA Construct
Empty Control pRSG16-U6-XX-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)

The Empty Control Lentiviral Construct does not express an sgRNA nor does it have a functional U6 promoter. It can be used as a negative control for sgRNA expression constructs.

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-XX-pRSG16	Control Lentiviral CRISPR sgRNA Expression Construct Empty Control pRSG16-U6-XX-UbiC-TagRFP-2A-Puro (packaged) Gene ID: n/a 2.95×10^7 TU , 3.93×10^7 TU/ml (750 μ l total: 250 μ l \times 3 vials) Lot# 17051802; Store at -80°C
Target Sequence:	n/a
Insert Sequence + tracrRNA:	<u>n/a</u>
Sequencing QC:	n/a
Sequencing Primer:	n/a

Design of Collecta sgRNA Constructs:

ACCG-sgRNA-tracrRNA-TTCG

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