

## Product Analysis Certificate

Control Lentiviral CRISPR sgRNA Construct  
Empty Control pRSGCCP-U6-XX-CMV-Cas9-2A-Puro (plasmid)  
Cat.# SGCCTL-XX-pRSGCCP



### Control Lentiviral CRISPR sgRNA Construct

**Shipment Contents:** Control Lentiviral CRISPR sgRNA Construct (Plasmid)  
Empty Control pRSGCCP-U6-XX-CMV-Cas9-2A-Puro (plasmid)  
— Store at -20°C

#### Description:

Cellecta's single-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) along with the Cas9 nuclease. 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.

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 plasmid sgRNA construct can be packaged into VSV-G pseudotyped viral particles using most commercially-available second or third-generation packaging mixes or Cellecta's second-generation psPAX2/pMD2.G packaging plasmid mix:

Cat.# CPCP-K2A, Ready-to-use Lentiviral Packaging Plasmid Mix, 250 µg (for 25 x 10-cm plates)

The titer of packaged constructs can be 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:** -20°C

**Shelf Life:** 2 years from date of receipt

**Shipping Conditions:** Room Temperature, Blue Ice, or 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
SGCCTL-XX-pRSGCCP	<b>Control Lentiviral CRISPR sgRNA Expression Construct</b> Empty Control pRSGCCP-U6-XX-CMV-Cas9-2A-Puro (plasmid) Gene ID: n/a  <b>25 µg, 0.5 µg/µl (50 µl × 1 tube)</b> Lot# 17040571; Store at -20°C

### Design of Collecta sgRNA Constructs:

ACCG-sgRNA-tracrRNA-TTCG

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