

Product Analysis Certificate

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



Control Lentiviral CRISPR sgRNA Construct

Shipment Contents: Control Lentiviral CRISPR sgRNA Construct (Plasmid)
Empty Control pRSGCCH-U6-XX-CMV-Cas9-2A-Hygro (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-pRSGCCH	Control Lentiviral CRISPR sgRNA Expression Construct Empty Control pRSGCCH-U6-XX-CMV-Cas9-2A-Hygro (plasmid) Gene ID: n/a 25 µg, 0.5 µg/µl (50 µl × 1 tube) Lot# 18010801; Store at -20°C

Design of Collecta sgRNA Constructs:

ACCG-sgRNA-tracrRNA-TTCG

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