

Product Analysis Certificate

Control Lentiviral CRISPR sgRNA Construct
sg_CopGFP_D1 Control in pRSGCCG-U6-sg-CMV-Cas9-2A-TagGFP2 (packaged)
Cat.# SGCCTL-COP-pRSGCCG-V



Control Lentiviral CRISPR sgRNA Construct

Shipment Contents: Control Lentiviral CRISPR sgRNA Construct
sg_CopGFP_D1 Control in pRSGCCG-U6-sg-CMV-Cas9-2A-TagGFP2 (packaged)
— Store at -80°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 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 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: -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
SGCCTL-COP-pRSGCCG-V	Control Lentiviral CRISPR sgRNA Expression Construct sg_CopGFP_D1 Control in pRSGCCG-U6-sg_CopGFP_D1-CMV-Cas9-2A-TagGFP2 (packaged) RefSeq#: n/a, Gene ID: n/a <u>Packaged, > 1 x 10⁶ TU:</u> 1.82 × 10⁶ TU, 3.63 × 10⁶ TU/ml (500 µl × 1 vial) Lot# 16072037; Store at -80°C
Target Sequence:	AAGATCGAGTGCCGCATCAC
Insert Sequence + tracrRNA:	ACCG AAGATCGAGTGCCGCATCAC GGTTTAAGAGCTATGCTGGAAACAGCATAGCAAGTTTAAATAAGGCTAGTCCGTTATCAACTTGAAAAAGTGGCACCGAGTCGGTGCCTTTTTCG
Sequencing QC:	NNNTTCNNGGGTAGTTTGCAGTTTTANATTATGTTTTAAATGGACTATCATATGCTTACCCTAACTTGAAAGTATTCGATTTCTTGGCTTTATATATCTTGTGGAAAGGACGAAACACCGAAGATCGAGTGCCGCATCACGTTTAAGAGCTATGCTGGAAACAGCATAGCAAGTTTAAATAAGGCTAGTCCGTTATCAACTTGAAAAAGTGGCACCGAGTCGGTGCCTTTTTCGGACTGTAGAACTCTGAACCTCGAGCAATTTAAAAGAAAAGGGGGATTGGGGGTACAGTGCAGGGGAAAGAATAGTAGACATAATAGCAACAGACATACAA
Sequencing Primer:	ATTAGTACAAAATACGTGACGTAGAA (U6-3)

Structure of sgRNA designed by Cellecta:

5'-ACCG-20mer gRNA template(target sequence)-tracrRNA-TTCG-3'

Structure of Target Site (sense or antisense strand):

5'-NNNNNNNNNNNNNNNNNNNNNGG-3' (genomic target + PAM site)
5'-NNNNNNNNNNNNNNNNNNNN-3' (gRNA template, i.e. template DNA / construct insert)
3'-NNNNNNNNNNNNNNNNNNNN-5' (gRNA - RNA expressed from vector)

Example Genomic Target Site of sg_hPCNA_CO_5 control construct (sense strand):

5'-CCTGGTCCAGGCTCCATCCTCAAGAAGGTGT-3' (genomic target + PAM site)
5'-CCAGGCTCCATCCTCAAGA-3' (gRNA template, i.e. template DNA / construct insert)
3'-GGTCCCGAGGTAGGAGTCT-5' (gRNA - RNA expressed from vector)

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