

Product Analysis Certificate

CRISPR Cas9 Expression Vector, pRCCR-CMV-Cas9-2A-TagRFP (Packaged)
Cat.# SVC9R-VS



CRISPR Cas9 Expression Plasmid

Shipment Contents: pRCCR-CMV-Cas9-2A-TagRFP (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. The CRISPR Cas9 Expression Vector also expresses the TagRFP fluorescent protein. Expression of Cas9 is stable, and the system can be used in dividing or non-dividing cells or whole model organisms.

The plasmid CRISPR Cas9 vector 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 (Ready-to-use Packaging Plasmid Mix, Cat.# CPCP-K2A, 250 µg).

The titer of lentiviral packaged constructs can be functionally determined by transduction of 293T cells and either FACS of RFP-positive cells, antibiotic selection assay, or by PCR titering of integrated viral DNA.

Fluorescence Marker: TagRFP (ex/em: 560/590nm)

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/resources/product-manuals-and-certificates/>

Vector Info: <https://www.cellecta.com/resources/vector-information/>

Contents:

Catalog #	Description
SVC9R-VS	CRISPR Cas9 Expression Plasmid pRCCR-CMV-Cas9-2A-TagRFP (packaged) Packaged, > 1 x 10 ⁶ TU; 2.37 × 10⁶ TU , 1.58 × 10 ⁷ TU/ml (150 µl × 1 vial) Lot# 17091357; Store at -80°C

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