

Product Analysis Certificate

CRISPR Cas9 Expression Plasmid, pRCCR-CMV-Cas9-2A-TagRFP (Plasmid)
Cat.# SVC9R-PS



CRISPR Cas9 Expression Plasmid

Shipment Contents: pRCCR-CMV-Cas9-2A-TagRFP (Plasmid) — Store at -20°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 plasmid. The pRCCR-CMV-Cas9-2A-TagRFP Cas9 Expression Plasmid 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 Cas9 plasmid DNA 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: -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/resources/product-manuals-and-certificates/>

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

Contents:

Catalog #	Description
SVC9R-PS	CRISPR Cas9 Expression Plasmid pRCCR-CMV-Cas9-2A-TagRFP (plasmid) <u>Plasmid, 25 µg:</u> 25 µg , 0.5 µg/µl (50 µl × 1 tube) Lot# 17091356; Store at -20°C

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Evrogen IP JSC End-User Label License for the use of lentiviral shRNA constructs comprising TagRFP-encoded gene:

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