

## Product Analysis Certificate

CRISPRa dCas9-VPH Expression Vector, pRDVCCB-CMV-dCas9-VPH-2A-Blast (Plasmid)  
Cat.# SVVPHC9B-PS



### CRISPRa dCas9-VPH Expression Vector pRDVCCB-CMV-dCas9-VPH-2A-Blast (Plasmid)

**Shipment Contents:** pRDVCCB-CMV-dCas9-VPH-2A-Blast Expression Vector (Plasmid)  
— Store at -20°C

#### Description:

Cellecta's two-vector lentiviral CRISPRa dCas9-VPH system can be used for transcription activation of any target gene *in vivo* or *in vitro* by using a combination of an sgRNA (single guide RNA) expression vector along with a dCas9-VPH fusion protein expression vector. The dCas9-VPH vector expresses "catalytic dead" Cas9 fused to the VP64, p65, and HSF1 transactivation domains. The dCas9-VPH vector also expresses the blasticidin resistance gene. Expression of dCas9-VPH is stable, and the system can be used in dividing or non-dividing cells or whole model organisms.

The plasmid CRISPRa dCas9-VPH vector can be packaged into VSV-G pseudotyped lentiviral 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 packaged virus can be functionally determined by transduction of target cells and either antibiotic selection assay or PCR titering of integrated lentiviral 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: Please contact Cellecta at [tech@cellecta.com](mailto:tech@cellecta.com).

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

#### Contents:

Catalog #	Description
SVVPHC9B-PS	<b>CRISPRa dCas9-VPH Expression Vector</b> pRDVCCB-CMV-dCas9-VPH-2A-Blast (Plasmid) <u>Plasmid, 25 µg:</u> <b>25 µg</b> , 0.5 µg/µl (50 µl × 1 tube) Lot# 17102516; Store at -20°C

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