

Product Analysis Certificate

CRISPRi dCas9-KRAB Expression Vector, pRDKCCB-CMV-dCas9-KRAB-2A-Blast (Plasmid)
Cat.# SVKRABC9B-PS



CRISPRi dCas9-KRAB Expression Vector pRDKCCB-CMV-dCas9-KRAB-2A-Blast (Plasmid)

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

Description:

Cellecta's two-vector lentiviral CRISPRi dCas9-KRAB system can be used for repressing transcription 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-KRAB fusion protein expression vector. The dCas9-KRAB vector expresses "catalytic dead" Cas9 fused to the Krüppel associated box (KRAB) domain. The dCas9-KRAB vector also expresses the blasticidin resistance gene. Expression of dCas9-KRAB is stable, and the system can be used in dividing or non-dividing cells or whole model organisms.

The plasmid CRISPRi dCas9-KRAB 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.

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

Contents:

| Catalog # | Description |
|--------------|---|
| SVKRABC9B-PS | CRISPRi dCas9-KRAB Expression Vector pRDKCCB-CMV-dCas9-KRAB-2A-Blast (Plasmid) Plasmid, 25 µg: 25 µg , 0.5 µg/µl (50 µl × 1 tube) Lot# 17102512; Store at -20°C |

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