

Resource Summary Report

Generated by [dkNET](#) on Sep 4, 2026

pCDH-puro-CMV-VC3AI

RRID:Addgene_78907

Type: Plasmid

Proper Citation

RRID:Addgene_78907

Plasmid Information

URL: <http://www.addgene.org/78907>

Proper Citation: RRID:Addgene_78907

Insert Name: VC3AI

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23857461](#)

Vector Backbone Description: Backbone Size:7378; Vector Backbone:pCDH; Vector Types:Lentiviral; Bacterial Resistance:Ampicillin

Comments: Usage information based on sensor VC3AI: VC3AI has no or little background fluorescence, and its activation depends on the cleavage of sensor sequence of DEV DG. In fact, the sensors containing DX XD G other than DEV DG do not work. However, cells expressing VC3AI may have “background” fluorescence in some conditions, and we can confirm the so-called basal fluorescence still results from the cleaved VC3AI, because cells could have a low level of activated caspase3/7 in some conditions depending on cell line and culture condition. To avoid the possible detectable basal fluorescence, we infect cells with different dilutions of lentivirus and use the stable cell line expressing sensor protein as high as possible but without basal fluorescence for experiments. Notably, the low level of sensor protein expression work poorly. During our investigation, the basal fluorescence often happens on GC3AI, if the sensor protein expression level is high. This is because GC3AI protein is more stable than other sensors.

Plasmid Name: pCDH-puro-CMV-VC3AI

Relevant Mutation: S320A, deletion of AA1-200

Record Creation Time: 20220422T222519+0000

Ratings and Alerts

No rating or validation information has been found for pCDH-puro-CMV-VC3AI.

No alerts have been found for pCDH-puro-CMV-VC3AI.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Sung HK, et al. (2024) Ischemia-induced cardiac dysfunction is exacerbated in adiponectin-knockout mice due to impaired autophagy flux. Clinical and translational science, 17(3), e13758.

Berthenet K, et al. (2020) Failed Apoptosis Enhances Melanoma Cancer Cell Aggressiveness. Cell reports, 31(10), 107731.

Akieda Y, et al. (2019) Cell competition corrects noisy Wnt morphogen gradients to achieve robust patterning in the zebrafish embryo. Nature communications, 10(1), 4710.