

Resource Summary Report

Generated by [dkNET](#) on Jul 29, 2026

pTriEx-mVenus-PA-Rac1-C450A

RRID:Addgene_22021

Type: Plasmid

Proper Citation

RRID:Addgene_22021

Plasmid Information

URL: <http://www.addgene.org/22021>

Proper Citation: RRID:Addgene_22021

Insert Name: PA-Rac1-C450A

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19693014](#)

Vector Backbone Description: Backbone Marker:Novagen; Backbone Size:6000; Vector Backbone:pTriEx; Vector Types:Mammalian Expression, Bacterial Expression, Insect Expression; Bacterial Resistance:Ampicillin

Comments: Protocols for production and use of Hahn lab biosensors and photoactivatable proteins can be found on their web page, at the URL below. If you have suggestions for the protocols or have any questions, please feel free to contact the Hahn lab. Good luck with your experiments! Hahn lab biosensor protocol: <http://www.hahnlab.com/tools/index.html> Please note, Addgene has not confirmed all the mutations associated with this construct. We suggest sequence verifying this plasmid upon receipt.

Plasmid Name: pTriEx-mVenus-PA-Rac1-C450A

Relevant Mutation: LOV domain contains the light-insensitive C450A mutation. Rac1 starts at I4 and contains mutations Q61L, E91H and N92H.

Record Creation Time: 20220422T222057+0000

Record Last Update: 20260725T074429+0000

Ratings and Alerts

No rating or validation information has been found for pTriEx-mVenus-PA-Rac1-C450A.

No alerts have been found for pTriEx-mVenus-PA-Rac1-C450A.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Sawada M, et al. (2018) PlexinD1 signaling controls morphological changes and migration termination in newborn neurons. The EMBO journal, 37(4).

Ishii T, et al. (2015) Light generation of intracellular Ca(2+) signals by a genetically encoded protein BACCS. Nature communications, 6, 8021.