

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pPB_Cdc42-TomKat-sensor-CAAX

RRID:Addgene_172473

Type: Plasmid

Proper Citation

RRID:Addgene_172473

Plasmid Information

URL: <http://www.addgene.org/172473>

Proper Citation: RRID:Addgene_172473

Insert Name: tdKatushka2-PBD(Pak1)-EVlinker-Cdc42-tdTomato-CAAX

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:34785668](#)

Vector Backbone Description: Backbone Size:6785; Vector Backbone:pPB; Vector Types:Mammalian Expression, Piggybac transposon; Bacterial Resistance:Ampicillin

Comments: This sensor is based on the design of the Matsuda lab (<https://www.ncbi.nlm.nih.gov/pubmed/21976697>), but modified to use tdTomato as the FRET donor and tdKatushka as the FRET acceptor. The tdKatushka2 was originally cloned by Michael Davidson's lab (Addgene plasmid #56049).

Plasmid Name: pPB_Cdc42-TomKat-sensor-CAAX

Record Creation Time: 20220422T222001+0000

Record Last Update: 20260815T081025+0000

Ratings and Alerts

No rating or validation information has been found for pPB_Cdc42-TomKat-sensor-CAAX.

No alerts have been found for pPB_Cdc42-TomKat-sensor-CAAX.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Hadjitheodorou A, et al. (2021) Directional reorientation of migrating neutrophils is limited by suppression of receptor input signaling at the cell rear through myosin II activity. Nature communications, 12(1), 6619.