

Resource Summary Report

Generated by [dkNET](#) on Aug 22, 2026

pCAG-Kir2.1-T2A-tdTomato

RRID:Addgene_60598

Type: Plasmid

Proper Citation

RRID:Addgene_60598

Plasmid Information

URL: <http://www.addgene.org/60598>

Proper Citation: RRID:Addgene_60598

Insert Name: Kir2.1-T2A-tdTomato

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25043046](#)

Vector Backbone Description: Backbone Size:5008; Vector Backbone:pCAG; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pCAG-Kir2.1-T2A-tdTomato

Record Creation Time: 20220422T222348+0000

Record Last Update: 20260815T081734+0000

Ratings and Alerts

No rating or validation information has been found for pCAG-Kir2.1-T2A-tdTomato.

No alerts have been found for pCAG-Kir2.1-T2A-tdTomato.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Virga DM, et al. (2024) Activity-dependent compartmentalization of dendritic mitochondria morphology through local regulation of fusion-fission balance in neurons in vivo. *Nature communications*, 15(1), 2142.

Vijayan V, et al. (2023) A rise-to-threshold process for a relative-value decision. *Nature*, 619(7970), 563.

Ruddiman CA, et al. (2023) Polarized localization of phosphatidylserine in the endothelium regulates Kir2.1. *JCI insight*, 8(9).

Munz M, et al. (2023) Pyramidal neurons form active, transient, multilayered circuits perturbed by autism-associated mutations at the inception of neocortex. *Cell*, 186(9), 1930.

Roethler O, et al. (2023) Single genomic enhancers drive experience-dependent GABAergic plasticity to maintain sensory processing in the adult cortex. *Neuron*, 111(17), 2693.

Wang F, et al. (2023) Gliotransmission and adenosine signaling promote axon regeneration. *Developmental cell*, 58(8), 660.

Zhao R, et al. (2022) Activity disruption causes degeneration of entorhinal neurons in a mouse model of Alzheimer's circuit dysfunction. *eLife*, 11.

Trofimenko E, et al. (2021) Genetic, cellular, and structural characterization of the membrane potential-dependent cell-penetrating peptide translocation pore. *eLife*, 10.

Banerjee S, et al. (2021) Miniature neurotransmission is required to maintain *Drosophila* synaptic structures during ageing. *Nature communications*, 12(1), 4399.

Bugeon S, et al. (2021) Intrinsic Neuronal Activity during Migration Controls the Recruitment of Specific Interneuron Subtypes in the Postnatal Mouse Olfactory Bulb. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 41(12), 2630.

Stroud H, et al. (2020) An Activity-Mediated Transition in Transcription in Early Postnatal Neurons. *Neuron*, 107(5), 874.

Korrell KV, et al. (2019) Differential effect on myelination through abolition of activity-dependent synaptic vesicle release or reduction of overall electrical activity of selected cortical projections in the mouse. *Journal of anatomy*, 235(3), 452.

Page SC, et al. (2018) The schizophrenia- and autism-associated gene, transcription factor 4 regulates the columnar distribution of layer 2/3 prefrontal pyramidal neurons in an activity-dependent manner. *Molecular psychiatry*, 23(2), 304.

Li S, et al. (2016) Promoting axon regeneration in the adult CNS by modulation of the melanopsin/GPCR signaling. *Proceedings of the National Academy of Sciences of the United States of America*, 113(7), 1937.