

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pCAG-Kir2.1Mut-T2A-tdTomato

RRID:Addgene_60644

Type: Plasmid

Proper Citation

RRID:Addgene_60644

Plasmid Information

URL: <http://www.addgene.org/60644>

Proper Citation: RRID:Addgene_60644

Insert Name: Kcnj2

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-Kir2.1Mut-T2A-tdTomato

Relevant Mutation: GYG to AAA (aa144-146)

Record Creation Time: 20220422T222348+0000

Record Last Update: 20260725T074927+0000

Ratings and Alerts

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

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

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Nguyen LH, et al. (2024) The mTOR pathway genes mTOR, Rheb, Depdc5, Pten, and Tsc1 have convergent and divergent impacts on cortical neuron development and function. bioRxiv : the preprint server for biology.

Nguyen LH, et al. (2024) The mTOR pathway genes MTOR, Rheb, Depdc5, Pten, and Tsc1 have convergent and divergent impacts on cortical neuron development and function. eLife, 12.

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.

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.

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.

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.