

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

msfGFP-Cx43

RRID:Addgene_69024

Type: Plasmid

Proper Citation

RRID:Addgene_69024

Plasmid Information

URL: <http://www.addgene.org/69024>

Proper Citation: RRID:Addgene_69024

Insert Name: Cx43

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:26265468](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:EGFP-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: Note all connexins tested that have a fluorescent protein fused to the connexin amino-terminus do not form functional channels. This plasmid forms gap junction plaque structures but does not produce intercellular coupling.

Plasmid Name: msfGFP-Cx43

Record Creation Time: 20220422T222429+0000

Record Last Update: 20260815T081849+0000

Ratings and Alerts

No rating or validation information has been found for msfGFP-Cx43.

No alerts have been found for msfGFP-Cx43.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Soto JS, et al. (2023) Astrocyte-neuron subproteomes and obsessive-compulsive disorder mechanisms. *Nature*, 616(7958), 764.

Fonseca JP, et al. (2022) Analysis of localized cAMP perturbations within a tissue reveal the effects of a local, dynamic gap junction state on ERK signaling. *PLoS computational biology*, 18(3), e1009873.

Yang Y, et al. (2021) CKIP-1 acts downstream to Cx43 on the activation of Nrf2 signaling pathway to protect from renal fibrosis in diabetes. *Pharmacological research*, 163, 105333.

Murphy-Royal C, et al. (2020) Stress gates an astrocytic energy reservoir to impair synaptic plasticity. *Nature communications*, 11(1), 2014.