

Resource Summary Report

Generated by [kravitz2](#) on Aug 10, 2026

KCC2-pHext

RRID:Addgene_104076

Type: Plasmid

Proper Citation

RRID:Addgene_104076

Plasmid Information

URL: <http://www.addgene.org/104076>

Proper Citation: RRID:Addgene_104076

Insert Name: KCC2 (b isoform)

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:28785725](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4807; Vector Backbone:EGFP-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: In order to directly visualize the insertion of KCC2 IGE variants into the membranes of single neurons, we created a novel construct encoding KCC2 with a pHluorine tag introduced into the second extracellular loop of the transporter , KCC2-pHext. See attached Scheme of KCC2-ext.pdf

Plasmid Name: KCC2-pHext

Relevant Mutation: EcoR1 site in rat KCC2 was removed by silent mutation, A3267G in rat coding sequence. Two sets of silent mutations render construct resistant to shRNA K10 (~3482) and K11(~4793).

Record Creation Time: 20220422T221505+0000

Record Last Update: 20260808T080330+0000

Ratings and Alerts

No rating or validation information has been found for KCC2-pHext.

No alerts have been found for KCC2-pHext.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.