

Resource Summary Report

Generated by [dkNET](#) on Sep 1, 2026

pCI-EGFP-NR2b wt

RRID:Addgene_45447

Type: Plasmid

Proper Citation

RRID:Addgene_45447

Plasmid Information

URL: <http://www.addgene.org/45447>

Proper Citation: RRID:Addgene_45447

Insert Name: NR2B

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:12160751](#)

Vector Backbone Description: Backbone Marker:Promega; Backbone Size:4006; Vector Backbone:pCI; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Addgene Next-generation sequencing identified a sequence discrepancy that results in a Met to Leu change at position 745 in the plasmid insert, relative to Genbank IDs NM_012574.1 and NP_036706.1. The plasmid is expected to function as described in the associated publication.

Plasmid Name: pCI-EGFP-NR2b wt

Relevant Mutation: EGFP inserted after the predicted signal peptide cleavage site (after amino acid residue 31)

Record Creation Time: 20220422T222234+0000

Record Last Update: 20260829T080552+0000

Ratings and Alerts

No rating or validation information has been found for pCI-EGFP-NR2b wt.

No alerts have been found for pCI-EGFP-NR2b wt.

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 [dkNET](#) .

Kaizuka T, et al. (2024) FAM81A is a postsynaptic protein that regulates the condensation of postsynaptic proteins via liquid-liquid phase separation. PLoS biology, 22(3), e3002006.

Curtis AJ, et al. (2023) Molecular basis of interactions between CaMKII and γ -actinin-2 that underlie dendritic spine enlargement. eLife, 12.

Ortiz-Sanz C, et al. (2022) Amyloid β / PKC-dependent alterations in NMDA receptor composition are detected in early stages of Alzheimer's disease. Cell death & disease, 13(3), 253.

Angelini C, et al. (2022) p140Cap Regulates the Composition and Localization of the NMDAR Complex in Synaptic Lipid Rafts. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(38), 7183.

Vasavda C, et al. (2022) Biliverdin reductase bridges focal adhesion kinase to Src to modulate synaptic signaling. Science signaling, 15(733), eabh3066.

Lu X, et al. (2019) The second PDZ domain of scaffold protein Frmpd2 binds to GluN2A of NMDA receptors. Biochemical and biophysical research communications, 516(1), 63.

Bai X, et al. (2016) Septin 9 interacts with kinesin KIF17 and interferes with the mechanism of NMDA receptor cargo binding and transport. Molecular biology of the cell, 27(6), 897.

Tindi JO, et al. (2015) ANKS1B Gene Product AIDA-1 Controls Hippocampal Synaptic Transmission by Regulating GluN2B Subunit Localization. The Journal of neuroscience : the official journal of the Society for Neuroscience, 35(24), 8986.