

Resource Summary Report

Generated by [RRID](#) on Aug 31, 2026

pEGFP-NR2B

RRID:Addgene_17925

Type: Plasmid

Proper Citation

RRID:Addgene_17925

Plasmid Information

URL: <http://www.addgene.org/17925>

Proper Citation: RRID:Addgene_17925

Insert Name: N-methyl D-aspartate receptor 2B

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:11897109](#)

Vector Backbone Description: Backbone Size:4716; Vector Backbone:pRK5; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Addgene NGS identified a few sequence discrepancies relative to Genbank ID: M91562, but the plasmid is expected to function as described in the associated publication.

Plasmid Name: pEGFP-NR2B

Record Creation Time: 20220422T222031+0000

Record Last Update: 20260829T080112+0000

Ratings and Alerts

No rating or validation information has been found for pEGFP-NR2B.

No alerts have been found for pEGFP-NR2B.

Data and Source Information

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Martínez-Lázaro R, et al. (2025) GRIN2B disease-associated mutations disrupt the function of BK channels and NMDA receptor signaling nanodomains. *The Journal of general physiology*, 157(5).

Zong P, et al. (2024) TRPM2 enhances ischemic excitotoxicity by associating with PKC?. *Cell reports*, 43(2), 113722.

Li A, et al. (2023) A novel dopamine D2 receptor-NR2B protein complex might contribute to morphine use disorders. *European journal of pharmacology*, 961, 176174.

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

Parnell E, et al. (2022) A developmental delay linked missense mutation in Kalirin-7 disrupts protein function and neuronal morphology. *Frontiers in molecular neuroscience*, 15, 994513.

Zong P, et al. (2022) Functional coupling of TRPM2 and extrasynaptic NMDARs exacerbates excitotoxicity in ischemic brain injury. *Neuron*, 110(12), 1944.

Gómez R, et al. (2021) NMDA receptor-BK channel coupling regulates synaptic plasticity in the barrel cortex. *Proceedings of the National Academy of Sciences of the United States of America*, 118(35).

Lee GS, et al. (2021) 14-3-3 proteins promote synaptic localization of N-methyl d-aspartate receptors (NMDARs) in mouse hippocampal and cortical neurons. *PloS one*, 16(12), e0261791.

Nuwer JL, et al. (2021) Sustained treatment with an $\alpha 5$ GABA A receptor negative allosteric modulator delays excitatory circuit development while maintaining GABAergic neurotransmission. *Neuropharmacology*, 197, 108724.

Mehta N, et al. (2020) An engineered antibody binds a distinct epitope and is a potent inhibitor of murine and human VISTA. *Scientific reports*, 10(1), 15171.

Sceniak MP, et al. (2019) An autism-associated mutation in GluN2B prevents NMDA receptor trafficking and interferes with dendrite growth. *Journal of cell science*, 132(20).

Reyes-Guzman EA, et al. (2017) Antagonistic action on NMDA/GluN2B mediated currents of two peptides that were conantokin-G structure-based designed. *BMC neuroscience*, 18(1), 44.

Chakraborty M, et al. (2017) Overexpression of human NR2B receptor subunit in LMAN causes stuttering and song sequence changes in adult zebra finches. *Scientific reports*, 7(1), 942.

Bagasrawala I, et al. (2017) N-Methyl d-Aspartate Receptor Expression Patterns in the Human Fetal Cerebral Cortex. *Cerebral cortex* (New York, N.Y. : 1991), 27(11), 5041.