

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

pCI-SEP_NR2B

RRID:Addgene_23998

Type: Plasmid

Proper Citation

RRID:Addgene_23998

Plasmid Information

URL: <http://www.addgene.org/23998>

Proper Citation: RRID:Addgene_23998

Insert Name: NR2B

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16481433](#)

Vector Backbone Description: Backbone Size:4000; Vector Backbone:pCI; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: See attached map for additional plasmid features. The super-ecliptic pHluorin (SEP) coding sequence was inserted three amino acids downstream of the predicted signal peptide cleavage site.

Plasmid Name: pCI-SEP_NR2B

Record Creation Time: 20220422T222107+0000

Record Last Update: 20260815T081226+0000

Ratings and Alerts

No rating or validation information has been found for pCI-SEP_NR2B.

No alerts have been found for pCI-SEP_NR2B.

Data and Source Information

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Eom Y, et al. (2026) Prenatal exposure to particulate matter impairs offspring behavior via hippocampal NMDA receptor reduction: an in vivo and ex vivo study. *Environment international*, 211, 110270.

Díaz-Valdivia N, et al. (2025) Anti-P antibodies that impair memory perturb hippocampal glutamatergic receptor trafficking, synapse structure and microglia. *Molecular medicine (Cambridge, Mass.)*, 31(1), 290.

Boehringer SC, et al. (2023) CNS4 causes subtype-specific changes in agonist efficacy and reversal potential of permeant cations in NMDA receptors. *Pharmacology research & perspectives*, 11(3), e01107.

Hevesi Z, et al. (2021) Secretagogin marks amygdaloid PKC γ interneurons and modulates NMDA receptor availability. *Proceedings of the National Academy of Sciences of the United States of America*, 118(7).

Costa BM, et al. (2021) A glutamate concentration-biased allosteric modulator potentiates NMDA-induced ion influx in neurons. *Pharmacology research & perspectives*, 9(5), e00859.

Zhang ZY, et al. (2020) Ubiquitination and functional modification of GluN2B subunit-containing NMDA receptors by Cbl-b in the spinal cord dorsal horn. *Science signaling*, 13(638).

Akkuratov EE, et al. (2020) Ouabain Modulates the Functional Interaction Between Na,K-ATPase and NMDA Receptor. *Molecular neurobiology*, 57(10), 4018.

Zhu M, et al. (2018) Parkinson's disease-linked Parkin mutations impair glutamatergic signaling in hippocampal neurons. *BMC biology*, 16(1), 100.

Warikoo N, et al. (2018) Positive Allosteric Modulation as a Potential Therapeutic Strategy in Anti-NMDA Receptor Encephalitis. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 38(13), 3218.

Yang L, et al. (2018) Disruption of SHP1/NMDA receptor signaling in spinal cord dorsal horn alleviated inflammatory pain. *Neuropharmacology*, 137, 104.

Stanic J, et al. (2015) Rabphilin 3A retains NMDA receptors at synaptic sites through interaction with GluN2A/PSD-95 complex. *Nature communications*, 6, 10181.

Park E, et al. (2012) Activity-dependent modulation of the interaction between CaMKII γ and Abi1 and its involvement in spine maturation. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 32(38), 13177.