

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

pCI-SEP_NR2A

RRID:Addgene_23997

Type: Plasmid

Proper Citation

RRID:Addgene_23997

Plasmid Information

URL: <http://www.addgene.org/23997>

Proper Citation: RRID:Addgene_23997

Insert Name: NR2A

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_NR2A

Record Creation Time: 20220422T222107+0000

Record Last Update: 20260815T081226+0000

Ratings and Alerts

No rating or validation information has been found for pCI-SEP_NR2A.

No alerts have been found for pCI-SEP_NR2A.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 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.

D??az-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.

Woo DH, et al. (2020) Inhibitors of synaptic vesicle exocytosis reduce surface expression of postsynaptic glutamate receptors. *Animal cells and systems*, 24(6), 341.

Rosendo-Pineda MJ, et al. (2020) Phosphorylation of NMDA receptors by cyclin B/CDK1 modulates calcium dynamics and mitosis. *Communications biology*, 3(1), 665.

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

Kanamori T, et al. (2015) Local endocytosis triggers dendritic thinning and pruning in *Drosophila* sensory neurons. *Nature communications*, 6, 6515.

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

Wang N, et al. (2014) Active calcium/calmodulin-dependent protein kinase II (CaMKII) regulates NMDA receptor mediated postischemic long-term potentiation (i-LTP) by promoting the interaction between CaMKII and NMDA receptors in ischemia. *Neural plasticity*, 2014, 827161.

Swanger SA, et al. (2013) Dendritic GluN2A synthesis mediates activity-induced NMDA receptor insertion. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 33(20), 8898.