

Resource Summary Report

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

pCI-SEP-NRI

RRID:Addgene_23999

Type: Plasmid

Proper Citation

RRID:Addgene_23999

Plasmid Information

URL: <http://www.addgene.org/23999>

Proper Citation: RRID:Addgene_23999

Insert Name: NR1

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: The super-ecliptic pHluorin (SEP) coding sequence was inserted three amino acids downstream of the predicted signal peptide cleavage site.

Plasmid Name: pCI-SEP-NRI

Record Creation Time: 20220422T222107+0000

Record Last Update: 20260815T081228+0000

Ratings and Alerts

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

No alerts have been found for pCI-SEP-NRI.

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 [dkNET](#) .

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.

Elmasri M, et al. (2022) Common synaptic phenotypes arising from diverse mutations in the human NMDA receptor subunit GluN2A. *Communications biology*, 5(1), 174.

Chifor A, et al. (2022) NMDA receptor-targeted enrichment of CaMKII γ improves fear memory. *iScience*, 25(8), 104864.

Cappelli J, et al. (2022) Glycine-induced NMDA receptor internalization provides neuroprotection and preserves vasculature following ischemic stroke. *iScience*, 25(1), 103539.

Li S, et al. (2021) Asynchronous release sites align with NMDA receptors in mouse hippocampal synapses. *Nature communications*, 12(1), 677.

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

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

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.

Hodges JL, et al. (2014) γ -Actinin-2 mediates spine morphology and assembly of the post-synaptic density in hippocampal neurons. *PloS one*, 9(7), e101770.