

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

pCI-SEP-GluR1

RRID:Addgene_24000

Type: Plasmid

Proper Citation

RRID:Addgene_24000

Plasmid Information

URL: <http://www.addgene.org/24000>

Proper Citation: RRID:Addgene_24000

Insert Name: GluR1

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

Plasmid Name: pCI-SEP-GluR1

Record Creation Time: 20220422T222107+0000

Record Last Update: 20260815T081226+0000

Ratings and Alerts

No rating or validation information has been found for pCI-SEP-GluR1.

No alerts have been found for pCI-SEP-GluR1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

Padmanabhan N, et al. (2026) Neurexin-1? drives synaptic transmission through structural integration of neurotransmitter release machinery and postsynaptic receptor nanodomains. *Neuron*.

Jenks KR, et al. (2025) The noncoding circular RNA circHomer1 regulates synaptic development and experience-dependent plasticity in the mouse visual cortex. *iScience*, 28(9), 113421.

Prinkey K, et al. (2024) Fluorescence lifetime imaging of AMPA receptor endocytosis in living neurons: effects of A? and PP1. *Frontiers in molecular neuroscience*, 17, 1409401.

Harb A, et al. (2021) Auxiliary Subunits Regulate the Dendritic Turnover of AMPA Receptors in Mouse Hippocampal Neurons. *Frontiers in molecular neuroscience*, 14, 728498.

Oueslati Morales CO, et al. (2021) Protein kinase D promotes activity-dependent AMPA receptor endocytosis in hippocampal neurons. *Traffic (Copenhagen, Denmark)*, 22(12), 454.

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

Shen W, et al. (2020) Tomosyn regulates the small RhoA GTPase to control the dendritic stability of neurons and the surface expression of AMPA receptors. *Journal of neuroscience research*, 98(6), 1213.

Gobbo F, et al. (2020) Neuronal Activity at Synapse Resolution: Reporters and Effectors for Synaptic Neuroscience. *Frontiers in molecular neuroscience*, 13, 572312.

Dai W, et al. (2019) The Impact and Mechanism of a Novel Allosteric AMPA Receptor Modulator LCX001 on Protection Against Respiratory Depression in Rodents. *Frontiers in pharmacology*, 10, 105.

Wagner W, et al. (2019) Myosin VI Drives Clathrin-Mediated AMPA Receptor Endocytosis to Facilitate Cerebellar Long-Term Depression. *Cell reports*, 28(1), 11.

Nakagawa N, et al. (2019) Memo1-Mediated Tiling of Radial Glial Cells Facilitates Cerebral Cortical Development. *Neuron*, 103(5), 836.

Blair LJ, et al. (2019) The Disease-Associated Chaperone FKBP51 Impairs Cognitive Function by Accelerating AMPA Receptor Recycling. *eNeuro*, 6(1).

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

Brown JC, et al. (2016) Bidirectional regulation of synaptic transmission by BRAG1/IQSEC2 and its requirement in long-term depression. *Nature communications*, 7, 11080.

Kellner Y, et al. (2016) Nogo-A controls structural plasticity at dendritic spines by rapidly modulating actin dynamics. *Hippocampus*, 26(6), 816.

Huang Z, et al. (2016) Neogenin Promotes BMP2 Activation of YAP and Smad1 and Enhances Astrocytic Differentiation in Developing Mouse Neocortex. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 36(21), 5833.

Song RS, et al. (2016) Cross-regulation of Phosphodiesterase 1 and Phosphodiesterase 2 Activities Controls Dopamine-mediated Striatal γ -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptor Trafficking. *The Journal of biological chemistry*, 291(44), 23257.

Garcia-Alvarez G, et al. (2015) STIM2 regulates PKA-dependent phosphorylation and trafficking of AMPARs. *Molecular biology of the cell*, 26(6), 1141.

Brigidi GS, et al. (2015) Activity-regulated trafficking of the palmitoyl-acyl transferase DHHC5. *Nature communications*, 6, 8200.

Munsie LN, et al. (2015) Retromer-dependent neurotransmitter receptor trafficking to synapses is altered by the Parkinson's disease VPS35 mutation p.D620N. *Human molecular genetics*, 24(6), 1691.