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 ?-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.