

Resource Summary Report

Generated by [RRID](#) on Aug 24, 2026

pCAG-NL1(-)

RRID:Addgene_15260

Type: Plasmid

Proper Citation

RRID:Addgene_15260

Plasmid Information

URL: <http://www.addgene.org/15260>

Proper Citation: RRID:Addgene_15260

Insert Name: Neuroligin 1

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16846852](#)

Vector Backbone Description: Backbone Size:4921; Vector Backbone:pCAAGS; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: There is a A43V mutation in the aa acid sequence. The mutation is within the signal sequence and our data demonstrate that cleavage is normal. That means the mature protein does not have any change in amino acid sequence.

Plasmid Name: pCAG-NL1(-)

Record Creation Time: 20220422T221835+0000

Record Last Update: 20260815T080727+0000

Ratings and Alerts

No rating or validation information has been found for pCAG-NL1(-).

No alerts have been found for pCAG-NL1(-).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Park SJ, et al. (2025) The neurexin gene family regulates olfactory glomerular formation. *Cell reports*, 44(8), 116125.

Kang M, et al. (2025) Cd99l2 regulates excitatory synapse development and restrains immediate-early gene activation. *Cell reports*, 44(1), 115155.

Aiken J, et al. (2024) Spastin locally amplifies microtubule dynamics to pattern the axon for presynaptic cargo delivery. *Current biology : CB*, 34(8), 1687.

Aiken J, et al. (2023) Spastin locally amplifies microtubule dynamics to pattern the axon for presynaptic cargo delivery. *bioRxiv : the preprint server for biology*.

Halff EF, et al. (2022) Phosphorylation of neuroligin-2 by PKA regulates its cell surface abundance and synaptic stabilization. *Science signaling*, 15(739), eabg2505.

Frei JA, et al. (2021) Regulation of Neural Circuit Development by Cadherin-11 Provides Implications for Autism. *eNeuro*, 8(4).

Tong DL, et al. (2019) The critical role of ASD-related gene CNTNAP3 in regulating synaptic development and social behavior in mice. *Neurobiology of disease*, 130, 104486.

Prada I, et al. (2018) Glia-to-neuron transfer of miRNAs via extracellular vesicles: a new mechanism underlying inflammation-induced synaptic alterations. *Acta neuropathologica*, 135(4), 529.

Bowen AB, et al. (2017) Golgi-independent secretory trafficking through recycling endosomes in neuronal dendrites and spines. *eLife*, 6.

Nakanishi M, et al. (2017) Functional significance of rare neuroligin 1 variants found in autism. *PLoS genetics*, 13(8), e1006940.

Gj?rlund MD, et al. (2017) Soluble Ectodomain of Neuroligin 1 Decreases Synaptic Activity by Activating Metabotropic Glutamate Receptor 2. *Frontiers in molecular neuroscience*, 10, 116.