

Resource Summary Report

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

pcDNA3-Nrxn1beta AS4(-)-Fc

RRID:Addgene_59313

Type: Plasmid

Proper Citation

RRID:Addgene_59313

Plasmid Information

URL: <http://www.addgene.org/59313>

Proper Citation: RRID:Addgene_59313

Insert Name: Nrxn1beta AS4(-)-Fc fusion

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:10892652](#)

Vector Backbone Description: Backbone Size:5381; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Fc-portion contains intronic sequences which improve expression. See map & sequence file for insert-releasing enzymes (e.g. HindIII / BglII for untagged Nrxn1beta, and HindIII / XhoI for Nrxn1beta-FC-fusion). The Nrxn 1 beta variant encoded by this plasmid is AS4(-), meaning exon 21 constituting alternatively spliced segment 4 (AS4) (=ENSMUSE00001309616) is absent / skipped.

Plasmid Name: pcDNA3-Nrxn1beta AS4(-)-Fc

Record Creation Time: 20220422T222342+0000

Record Last Update: 20260815T081722+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-Nrxn1beta AS4(-)-Fc.

No alerts have been found for pcDNA3-Nrxn1beta AS4(-)-Fc.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Pindwarawala M, et al. (2025) Defective glycosylation and ELFN1 binding of mGluR6 congenital stationary night blindness mutants. Life science alliance, 8(3).

Miller ML, et al. (2024) Complex N-glycosylation of mGluR6 is required for trans-synaptic interaction with ELFN adhesion proteins. The Journal of biological chemistry, 300(4), 107119.

Zhong BL, et al. (2023) Piconewton forces mediate GAIN domain dissociation of the latrophilin-3 adhesion GPCR. bioRxiv : the preprint server for biology.

Agosto MA, et al. (2021) LRRTM4 is a member of the transsynaptic complex between rod photoreceptors and bipolar cells. The Journal of comparative neurology, 529(1), 221.

Zhang P, et al. (2018) Heparan Sulfate Organizes Neuronal Synapses through Neurexin Partnerships. Cell, 174(6), 1450.