

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

YFP-NavII-III

RRID:Addgene_26056

Type: Plasmid

Proper Citation

RRID:Addgene_26056

Plasmid Information

URL: <http://www.addgene.org/26056>

Proper Citation: RRID:Addgene_26056

Insert Name: Nav1.2

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:20543823](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:pEYFP-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: YFP-NavII-III

Relevant Mutation: The insert codes only for the intracellular loop between transmembrane domains II and III

Record Creation Time: 20220422T222116+0000

Record Last Update: 20260725T074504+0000

Ratings and Alerts

No rating or validation information has been found for YFP-NavII-III.

No alerts have been found for YFP-NavII-III.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Tjiang N, et al. (2022) A mitochondria cluster at the proximal axon initial segment controls axodendritic TAU trafficking in rodent primary and human iPSC-derived neurons. Cellular and molecular life sciences : CMLS, 79(2), 120.

Eichel K, et al. (2022) Endocytosis in the axon initial segment maintains neuronal polarity. Nature, 609(7925), 128.

Evans CS, et al. (2020) Degradation of engulfed mitochondria is rate-limiting in Optineurin-mediated mitophagy in neurons. eLife, 9.

Emperador-Melero J, et al. (2018) Vti1a/b regulate synaptic vesicle and dense core vesicle secretion via protein sorting at the Golgi. Nature communications, 9(1), 3421.

Dumitrescu AS, et al. (2016) Evaluating Tools for Live Imaging of Structural Plasticity at the Axon Initial Segment. Frontiers in cellular neuroscience, 10, 268.

Maday S, et al. (2016) Compartment-Specific Regulation of Autophagy in Primary Neurons. The Journal of neuroscience : the official journal of the Society for Neuroscience, 36(22), 5933.