

Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

beta2-spectrin-HA

RRID:Addgene_31070

Type: Plasmid

Proper Citation

RRID:Addgene_31070

Plasmid Information

URL: <http://www.addgene.org/31070>

Proper Citation: RRID:Addgene_31070

Insert Name: beta2-spectrin

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Vector Backbone Description: Backbone Size:4000; Vector Backbone:Modified pEGFP-N1 (see note); Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: This construct DOES NOT contain EGFP- the EGFP has been removed from the pEGFP-N1 backbone. The following "mutations" have been located in this construct. The Bennett lab believes they are due to incorrect sequence data originally entered into NCBI; however, please be aware of these in case you are designing primers or doing mutagenesis: Derivations from published sequence: 2.59 c-->t (silent) 4.23 c-->g (H-->D) 5.99 g-->c (R-->T) 6.3 g-->a (silent) Please refer to the Addgene NGS result for the fully validated sequence.

Plasmid Name: beta2-spectrin-HA

Record Creation Time: 20220422T222135+0000

Record Last Update: 20260815T081331+0000

Ratings and Alerts

No rating or validation information has been found for beta2-spectrin-HA.

No alerts have been found for beta2-spectrin-HA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Macarrón-Palacios V, et al. (2025) Paralemmmin-1 controls the nanoarchitecture of the neuronal submembrane cytoskeleton. *Science advances*, 11(10), eadt3724.

Georgana I, et al. (2024) Filamin B restricts vaccinia virus spread and is targeted by vaccinia virus protein C4. *Journal of virology*, 98(3), e0148523.

Maor G, et al. (2023) γ -Synuclein Promotes Neuronal Dysfunction and Death by Disrupting the Binding of Ankyrin to γ -Spectrin. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 43(9), 1614.

Maor G, et al. (2023) γ -synuclein promotes neuronal dysfunction and death by disrupting the binding of ankyrin to β -spectrin. *bioRxiv : the preprint server for biology*.

Glomb O, et al. (2023) A kinesin-1 adaptor complex controls bimodal slow axonal transport of spectrin in *Caenorhabditis elegans*. *Developmental cell*, 58(19), 1847.

Wang J, et al. (2021) Calpain-2 specifically cleaves Junctophilin-2 at the same site as Calpain-1 but with less efficacy. *The Biochemical journal*, 478(19), 3539.

Hauser M, et al. (2018) The Spectrin-Actin-Based Periodic Cytoskeleton as a Conserved Nanoscale Scaffold and Ruler of the Neural Stem Cell Lineage. *Cell reports*, 24(6), 1512.

Zhong G, et al. (2014) Developmental mechanism of the periodic membrane skeleton in axons. *eLife*, 3.

Salcedo-Sicilia L, et al. (2013) γ III spectrin regulates the structural integrity and the secretory protein transport of the Golgi complex. *The Journal of biological chemistry*, 288(4), 2157.