

Resource Summary Report

Generated by [NIF](#) on Aug 17, 2026

mEos3.2-C1

RRID:Addgene_54550

Type: Plasmid

Proper Citation

RRID:Addgene_54550

Plasmid Information

URL: <http://www.addgene.org/54550>

Proper Citation: RRID:Addgene_54550

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:22581370](#)

Vector Backbone Description: Backbone Size:4750; Vector Backbone:mEos3.2-C1;
Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: mEos3.2 = mEos2 + I102N/H158E/Y189A. Excitation = 507 / 572; Emission = 516 / 580

Plasmid Name: mEos3.2-C1

Record Creation Time: 20220422T222319+0000

Record Last Update: 20260815T081641+0000

Ratings and Alerts

No rating or validation information has been found for mEos3.2-C1.

No alerts have been found for mEos3.2-C1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Emperador-Melero J, et al. (2024) Distinct active zone protein machineries mediate Ca²⁺ channel clustering and vesicle priming at hippocampal synapses. *Nature neuroscience*, 27(9), 1680.

Blueggel M, et al. (2023) The UBX domain in UBXD1 organizes ubiquitin binding at the C-terminus of the VCP/p97 AAA-ATPase. *Nature communications*, 14(1), 3258.

Emperador-Melero J, et al. (2023) Molecular definition of distinct active zone protein machineries for Ca²⁺ channel clustering and synaptic vesicle priming. *bioRxiv : the preprint server for biology*.

Ghelani T, et al. (2023) Interactive nanocluster compaction of the ELKS scaffold and Cacophony Ca²⁺ channels drives sustained active zone potentiation. *Science advances*, 9(7), eade7804.

Kröning A, et al. (2022) Ubiquitin-directed AAA+ ATPase p97/VCP unfolds stable proteins crosslinked to DNA for proteolysis by SPRTN. *The Journal of biological chemistry*, 298(6), 101976.

Rashid FM, et al. (2022) HI-NESS: a family of genetically encoded DNA labels based on a bacterial nucleoid-associated protein. *Nucleic acids research*, 50(2), e10.

Padmanabhan P, et al. (2022) Single-molecule imaging reveals Tau trapping at nanometer-sized dynamic hot spots near the plasma membrane that persists after microtubule perturbation and cholesterol depletion. *The EMBO journal*, 41(19), e111265.

Tanwar M, et al. (2021) Optogenetic modulation of real-time nanoscale dynamics of HCN channels using photoactivated adenylyl cyclases. *RSC chemical biology*, 2(3), 863.

Naetar N, et al. (2021) LAP2alpha maintains a mobile and low assembly state of A-type lamins in the nuclear interior. *eLife*, 10.

Mandal P, et al. (2021) Vinculin-mediated axon growth requires interaction with actin but not talin in mouse neocortical neurons. *Cellular and molecular life sciences : CMLS*, 78(15), 5807.

Cadar AG, et al. (2020) Real-time visualization of titin dynamics reveals extensive reversible photobleaching in human induced pluripotent stem cell-derived cardiomyocytes. *American journal of physiology. Cell physiology*, 318(1), C163.

Heck J, et al. (2019) Transient Confinement of CaV2.1 Ca²⁺-Channel Splice Variants Shapes Synaptic Short-Term Plasticity. *Neuron*, 103(1), 66.

Wild AR, et al. (2019) Synapse-to-Nucleus Communication through NFAT Is Mediated by L-type Ca²⁺ Channel Ca²⁺ Spike Propagation to the Soma. *Cell reports*, 26(13), 3537.

Meka DP, et al. (2019) Radial somatic F-actin organization affects growth cone dynamics during early neuronal development. *EMBO reports*, 20(12), e47743.

Weith M, et al. (2018) Ubiquitin-Independent Disassembly by a p97 AAA-ATPase Complex Drives PP1 Holoenzyme Formation. *Molecular cell*, 72(4), 766.

Dong Z, et al. (2017) Mitochondrial Ca²⁺ Uniporter Is a Mitochondrial Luminal Redox Sensor that Augments MCU Channel Activity. *Molecular cell*, 65(6), 1014.

Gopal PP, et al. (2017) Amyotrophic lateral sclerosis-linked mutations increase the viscosity of liquid-like TDP-43 RNP granules in neurons. *Proceedings of the National Academy of Sciences of the United States of America*, 114(12), E2466.

Vanhouwaert R, et al. (2017) The SAC1 domain in synaptojanin is required for autophagosome maturation at presynaptic terminals. *The EMBO journal*, 36(10), 1392.

Heck BW, et al. (2017) Trans-endocytosis of Planar Cell Polarity Complexes during Cell Division. *Current biology : CB*, 27(23), 3725.

Kravchick DO, et al. (2016) Synaptonuclear messenger PRR7 inhibits c-Jun ubiquitination and regulates NMDA-mediated excitotoxicity. *The EMBO journal*, 35(17), 1923.