# Resource Summary Report

Generated by kravitz2 on Aug 9, 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:** 20260808T081831+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 kravitz2 .


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.

Vanhauwaert 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.