

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

mEmerald-ER-3

RRID:Addgene_54082

Type: Plasmid

Proper Citation

RRID:Addgene_54082

Plasmid Information

URL: <http://www.addgene.org/54082>

Proper Citation: RRID:Addgene_54082

Insert Name: ER

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Vector Backbone Description: Backbone Size:4750; Vector Backbone:mEmerald;
Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: . Excitation = 487; Emission = 509. Localization data: Endoplasmic Reticulum

Plasmid Name: mEmerald-ER-3

Relevant Mutation: ER Signal Peptide

Record Creation Time: 20220422T222316+0000

Record Last Update: 20260725T074836+0000

Ratings and Alerts

No rating or validation information has been found for mEmerald-ER-3.

No alerts have been found for mEmerald-ER-3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Field JT, et al. (2025) The mitophagy receptor BNIP3L/Nix coordinates nuclear calcium signaling to modulate the muscle phenotype. *Autophagy*, 21(7), 1544.

Benedetti L, et al. (2024) Periodic ER-plasma membrane junctions support long-range Ca²⁺ signal integration in dendrites. *Cell*.

Lettieri A, et al. (2023) SEMA6A drives GnRH neuron-dependent puberty onset by tuning median eminence vascular permeability. *Nature communications*, 14(1), 8097.

Wang B, et al. (2022) The endoplasmic reticulum adopts two distinct tubule forms. *Proceedings of the National Academy of Sciences of the United States of America*, 119(18), e2117559119.

Paganoni AJJ, et al. (2022) A Novel Loss-of-Function SEMA3E Mutation in a Patient with Severe Intellectual Disability and Cognitive Regression. *International journal of molecular sciences*, 23(10).

Benedetti L, et al. (2021) Optogenetic Tools for Manipulating Protein Subcellular Localization and Intracellular Signaling at Organelle Contact Sites. *Current protocols*, 1(3), e71.

Wen G, et al. (2021) High-fidelity structured illumination microscopy by point-spread-function engineering. *Light, science & applications*, 10(1), 70.

Hoffman DP, et al. (2020) Correlative three-dimensional super-resolution and block-face electron microscopy of whole vitreously frozen cells. *Science (New York, N.Y.)*, 367(6475).

Longman D, et al. (2020) Identification of a localized nonsense-mediated decay pathway at the endoplasmic reticulum. *Genes & development*, 34(15-16), 1075.

Nixon-Abell J, et al. (2016) Increased spatiotemporal resolution reveals highly dynamic dense tubular matrices in the peripheral ER. *Science (New York, N.Y.)*, 354(6311).