

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

mCherry-ER-3

RRID:Addgene_55041

Type: Plasmid

Proper Citation

RRID:Addgene_55041

Plasmid Information

URL: <http://www.addgene.org/55041>

Proper Citation: RRID:Addgene_55041

Insert Name: ER

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

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

Comments: Calreticulin + KDEL. Excitation = 587; Emission = 610

Plasmid Name: mCherry-ER-3

Relevant Mutation: ER Signal Peptide

Record Creation Time: 20220422T222322+0000

Record Last Update: 20260815T081646+0000

Ratings and Alerts

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

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

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 58 mentions in open access literature.

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

Koch RE, et al. (2025) Multiple Pathways to Red Carotenoid Coloration: House Finches (*Haemorhous mexicanus*) Do Not Use CYP2J19 to Produce Red Plumage. *Molecular ecology*, 34(9), e17744.

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

Dong J, et al. (2025) Rab10 regulates neuropeptide release by maintaining Ca²⁺ homeostasis and protein synthesis. *eLife*, 13.

Krivi? D, et al. (2025) Photopharmacology reveals high-specificity linkage of Ca²⁺ entry at TRPC6 nanodomains to NFAT activation in mast cells. *Frontiers in immunology*, 16, 1595036.

Hwang S, et al. (2025) Sphingolipid synthesis maintains nuclear membrane integrity and genome stability during cell division. *The Journal of cell biology*, 224(8).

Yao Y, et al. (2025) The Cullin3-Rbx1-KLHL9 E3 ubiquitin ligase complex ubiquitinates Rheb and supports amino acid-induced mTORC1 activation. *Cell reports*, 44(1), 115101.

Tojima T, et al. (2024) Spatiotemporal dissection of the Golgi apparatus and the ER-Golgi intermediate compartment in budding yeast. *eLife*, 13.

Fernandez-Fuente G, et al. (2024) Spatial selectivity of ATase inhibition in mouse models of Charcot-Marie-Tooth disease. *Brain communications*, 6(4), fcae232.

Pradhan A, et al. (2024) Unraveling the molecular interactions between ?7 nicotinic receptor and a RIC3 variant associated with backward speech. *Cellular and molecular life sciences : CMLS*, 81(1), 129.

Sharma R, et al. (2023) PIMT Controls Insulin Synthesis and Secretion through PDX1. *International journal of molecular sciences*, 24(9).

Rudd JC, et al. (2023) Membrane structure and internalization dynamics of human Flower isoforms hFWE3 and hFWE4 indicate a conserved endocytic role for hFWE4. *The Journal of biological chemistry*, 299(8), 104945.

Kim N, et al. (2023) Intrinsically disordered region-mediated condensation of IFN-inducible SCOTIN/SHISA-5 inhibits ER-to-Golgi vesicle transport. *Developmental cell*, 58(19), 1950.

Godlee C, et al. (2022) The *Salmonella* transmembrane effector SteD hijacks AP1-mediated vesicular trafficking for delivery to antigen-loading MHCII compartments. *PLoS pathogens*, 18(5), e1010252.

Chipurupalli S, et al. (2022) Cancer cells adapt FAM134B/BiP mediated ER-phagy to survive hypoxic stress. *Cell death & disease*, 13(4), 357.

Kattan RE, et al. (2022) Interactome Analysis of Human Phospholipase D and Phosphatidic Acid-Associated Protein Network. *Molecular & cellular proteomics* : MCP, 21(2), 100195.

Rozales K, et al. (2022) Differential roles for DNAJ isoforms in HTT-polyQ and FUS aggregation modulation revealed by chaperone screens. *Nature communications*, 13(1), 516.

Nørgård MØ, et al. (2022) A new transgene mouse model using an extravesicular EGFP tag enables affinity isolation of cell-specific extracellular vesicles. *Scientific reports*, 12(1), 496.

Wong YC, et al. (2022) Mid51/Fis1 mitochondrial oligomerization complex drives lysosomal untethering and network dynamics. *The Journal of cell biology*, 221(10).

Zhang Z, et al. (2021) The conserved transmembrane protein TMEM-39 coordinates with COPII to promote collagen secretion and regulate ER stress response. *PLoS genetics*, 17(2), e1009317.

Perni S, et al. (2021) Neuronal junctophilins recruit specific CaV and RyR isoforms to ER-PM junctions and functionally alter CaV2.1 and CaV2.2. *eLife*, 10.