

Resource Summary Report

Generated by [NIF](#) on Aug 4, 2026

mCherry-SEpHluorin

RRID:Addgene_32001

Type: Plasmid

Proper Citation

RRID:Addgene_32001

Plasmid Information

URL: <http://www.addgene.org/32001>

Proper Citation: RRID:Addgene_32001

Insert Name: mCherry

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:20156964](#)

Vector Backbone Description: Backbone Marker:Clontech; Vector Backbone:pEGFP-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: mCherry-SEpHluorin

Record Creation Time: 20220422T222139+0000

Record Last Update: 20260801T081137+0000

Ratings and Alerts

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

No alerts have been found for mCherry-SEpHluorin.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Runyan LA, et al. (2025) Human plastins are novel cytoskeletal pH sensors with a reduced F-actin bundling capacity at basic pH. *bioRxiv : the preprint server for biology*.

Runyan LA, et al. (2025) Human Plastins are Novel Cytoskeletal pH Sensors with a Reduced F-actin Bundling Capacity at Basic pH. *Journal of molecular biology*, 437(19), 169306.

Hatakama H, et al. (2024) Amelioration of obsessive-compulsive disorder by intracellular acidification of cortical neurons with a proton pump inhibitor. *Translational psychiatry*, 14(1), 27.

Vuillefroy de Silly R, et al. (2024) Acidity suppresses CD8 + T-cell function by perturbing IL-2, mTORC1, and c-Myc signaling. *The EMBO journal*, 43(21), 4922.

Liu Y, et al. (2023) Intracellular pH dynamics regulates intestinal stem cell lineage specification. *Nature communications*, 14(1), 3745.

Yuan P, et al. (2022) PLD3 affects axonal spheroids and network defects in Alzheimer's disease. *Nature*, 612(7939), 328.

Lafouresse F, et al. (2021) Stochastic asymmetric repartition of lytic machinery in dividing CD8+ T cells generates heterogeneous killing behavior. *eLife*, 10.

Donahue CET, et al. (2021) An Optogenetic Tool to Raise Intracellular pH in Single Cells and Drive Localized Membrane Dynamics. *Journal of the American Chemical Society*, 143(45), 18877.

Scerra G, et al. (2021) Early onset effects of single substrate accumulation recapitulate major features of LSD in patient-derived lysosomes. *iScience*, 24(7), 102707.

Davis LC, et al. (2020) NAADP-regulated two-pore channels drive phagocytosis through endo-lysosomal Ca²⁺ nanodomains, calcineurin and dynamin. *The EMBO journal*, 39(14), e104058.

Galenkamp KMO, et al. (2020) Golgi Acidification by NHE7 Regulates Cytosolic pH Homeostasis in Pancreatic Cancer Cells. *Cancer discovery*, 10(6), 822.

Manchanda A, et al. (2019) Otoferlin Depletion Results in Abnormal Synaptic Ribbons and Altered Intracellular Calcium Levels in Zebrafish. *Scientific reports*, 9(1), 14273.

Walton ZE, et al. (2018) Acid Suspends the Circadian Clock in Hypoxia through Inhibition of mTOR. *Cell*, 174(1), 72.

Jin EJ, et al. (2018) Live Observation of Two Parallel Membrane Degradation Pathways at Axon Terminals. *Current biology : CB*, 28(7), 1027.

Zhao H, et al. (2018) The V-ATPase V1 subunit A1 is required for rhodopsin anterograde trafficking in *Drosophila*. *Molecular biology of the cell*, 29(13), 1640.

Saltukoglu D, et al. (2015) Spontaneous and electric field-controlled front-rear polarization of human keratinocytes. *Molecular biology of the cell*, 26(24), 4373.

Tanaka H, et al. (2014) Live-cell imaging of receptors around postsynaptic membranes. *Nature protocols*, 9(1), 76.