

Resource Summary Report

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

mTurquoise2-N1

RRID:Addgene_54843

Type: Plasmid

Proper Citation

RRID:Addgene_54843

Plasmid Information

URL: <http://www.addgene.org/54843>

Proper Citation: RRID:Addgene_54843

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:22434194](https://pubmed.ncbi.nlm.nih.gov/22434194/)

Vector Backbone Description: Backbone Size:4750; Vector Backbone:mTurquoise2-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: . Excitation = 434; Emission = 474

Plasmid Name: mTurquoise2-N1

Record Creation Time: 20220422T222321+0000

Record Last Update: 20260815T081643+0000

Ratings and Alerts

No rating or validation information has been found for mTurquoise2-N1.

No alerts have been found for mTurquoise2-N1.

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 [RRID](#) .

van der Linden FH, et al. (2025) A green lifetime biosensor for calcium that remains bright over its full dynamic range. *eLife*, 14.

Raina A, et al. (2025) Skin-derived α -synuclein strains from PD, DLB, and MSA induce distinct intracellular pathology and neurodegeneration. *The Journal of biological chemistry*, 302(1), 111005.

Wang S, et al. (2025) Endogenous Real Time Imaging Reveals Dynamic Chromosomal Mobility During Ligand-Mediated Transcriptional Burst Events. *bioRxiv : the preprint server for biology*.

He S, et al. (2025) A high-throughput screening approach to discover potential colorectal cancer chemotherapeutics: repurposing drugs to identify novel disruptors of 14-3-3 proteins. *Cell death & disease*, 16(1), 825.

Zhong C, et al. (2024) Development of fluorescence lifetime biosensors for ATP, cAMP, citrate, and glucose using the mTurquoise2-based platform. *Cell reports methods*, 4(11), 100902.

Jones RA, et al. (2024) An mTurq2-Col4a1 mouse model allows for live visualization of mammalian basement membrane development. *The Journal of cell biology*, 223(2).

Jones RA, et al. (2023) A Window into Mammalian Basement Membrane Development: Insights from the mTurq2-Col4a1 Mouse Model. *bioRxiv : the preprint server for biology*.

He S, et al. (2023) A high-throughput screening approach to discover potential colorectal cancer chemotherapeutics: Repurposing drugs to disrupt 14-3-3 protein-BAD interactions. *bioRxiv : the preprint server for biology*.

Kim YT, et al. (2022) 21 Fluorescent Protein-Based DNA Staining Dyes. *Molecules (Basel, Switzerland)*, 27(16).

Yuste-Checa P, et al. (2021) The extracellular chaperone Clusterin enhances Tau aggregate seeding in a cellular model. *Nature communications*, 12(1), 4863.

Eckenstaler R, et al. (2021) A Combined Acceptor Photobleaching and Donor Fluorescence Lifetime Imaging Microscopy Approach to Analyze Multi-Protein Interactions in Living Cells. *Frontiers in molecular biosciences*, 8, 635548.

van der Linden FH, et al. (2021) A turquoise fluorescence lifetime-based biosensor for quantitative imaging of intracellular calcium. *Nature communications*, 12(1), 7159.

Pedrosa AT, et al. (2020) A post-invasion role for Chlamydia type III effector TarP in modulating the dynamics and organization of host cell focal adhesions. *The Journal of biological chemistry*, 295(43), 14763.

Stoddard M, et al. (2019) Live imaging of leukocyte recruitment in a zebrafish model of chemical liver injury. *Scientific reports*, 9(1), 28.

Palomo-Guerrero M, et al. (2019) Sensing of nutrients by CPT1C regulates late endosome/lysosome anterograde transport and axon growth. *eLife*, 8.

Wong FH, et al. (2018) Cigarette smoke activates CFTR through ROS-stimulated cAMP signaling in human bronchial epithelial cells. *American journal of physiology. Cell physiology*, 314(1), C118.

Shin W, et al. (2018) Visualization of Membrane Pore in Live Cells Reveals a Dynamic-Pore Theory Governing Fusion and Endocytosis. *Cell*, 173(4), 934.