

Resource Summary Report

Generated by [RRID](#) on Sep 1, 2026

EMTB-3XGFP

RRID:Addgene_26741

Type: Plasmid

Proper Citation

RRID:Addgene_26741

Plasmid Information

URL: <http://www.addgene.org/26741>

Proper Citation: RRID:Addgene_26741

Insert Name: ensconsin

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19060892](#)

Vector Backbone Description: Backbone Size:4097; Vector Backbone:pCS2+; Vector Types:Mammalian Expression, probe for microtubules; Bacterial Resistance:Ampicillin

Comments: The microtubule binding domain of ensconsin (EMTB) was fused to 3 GFP molecules in order to visualize microtubules. For cloning details see Faire et al., 1999 Journal of Cell Science 112, 4243-4255. Note: It is difficult to sequence entirely through 3 tandem GFPs. Users are encouraged to perform a double-digest on this plasmid with EcoRI and XhoI to verify the presence of a ~3kb band corresponding to the EMTB insert + 3GFPs. Please see above attachment.

Plasmid Name: EMTB-3XGFP

Relevant Mutation: Only contains the microtubule binding-domain of ensconsin (amino acids 18-283 of GenBank reference sequence X73882)

Record Creation Time: 20220422T222120+0000

Record Last Update: 20260829T080310+0000

Ratings and Alerts

No rating or validation information has been found for EMTB-3XGFP.

No alerts have been found for EMTB-3XGFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

Yamamoto T, et al. (2025) Epithelial cell chirality emerges through the dynamic concentric pattern of actomyosin cytoskeleton. *eLife*, 14.

Smoler M, et al. (2025) Dynamical organization of vimentin intermediate filaments in living cells revealed by MoNaLISA nanoscopy. *Bioscience reports*, 45(2).

Kiyomitsu A, et al. (2024) Ran-GTP assembles a specialized spindle structure for accurate chromosome segregation in medaka early embryos. *Nature communications*, 15(1), 981.

Kraus JEM, et al. (2024) Doublecortin-like kinase is required for cnidocyte development in *Nematostella vectensis*. *Neural development*, 19(1), 11.

Senftleben ML, et al. (2024) Fast volumetric multifocus structured illumination microscopy of subcellular dynamics in living cells. *Biomedical optics express*, 15(4), 2281.

Tran QTH, et al. (2024) Altered Endoplasmic Reticulum Integrity and Organelle Interactions in Living Cells Expressing INF2 Variants. *International journal of molecular sciences*, 25(18).

Andreu-Carb?? M, et al. (2024) Microtubule damage shapes the acetylation gradient. *Nature communications*, 15(1), 2029.

Kapustina M, et al. (2023) Changes in cell surface excess are coordinated with protrusion dynamics during 3D motility. *Biophysical journal*, 122(18), 3656.

Li X, et al. (2023) Three-dimensional structured illumination microscopy with enhanced axial resolution. *Nature biotechnology*, 41(9), 1307.

Romero JJ, et al. (2022) Nucleus-cytoskeleton communication impacts on OCT4-chromatin interactions in embryonic stem cells. *BMC biology*, 20(1), 6.

Li Y, et al. (2022) Incorporating the image formation process into deep learning improves network performance. *Nature methods*, 19(11), 1427.

Getz SA, et al. (2022) PTEN Regulates Dendritic Arborization by Decreasing Microtubule Polymerization Rate. *The Journal of neuroscience : the official journal of the Society for*

Neuroscience, 42(10), 1945.

Fernandez-Nicolas A, et al. (2022) Vasa nucleates asymmetric translation along the mitotic spindle during unequal cell divisions. *Nature communications*, 13(1), 2145.

Rey-Suarez I, et al. (2021) Actomyosin dynamics modulate microtubule deformation and growth during T-cell activation. *Molecular biology of the cell*, 32(18), 1641.

Zhao R, et al. (2021) Targeting the Microtubule-Network Rescues CTL Killing Efficiency in Dense 3D Matrices. *Frontiers in immunology*, 12, 729820.

Shomron O, et al. (2021) Positioning of endoplasmic reticulum exit sites around the Golgi depends on BicaudalD2 and Rab6 activity. *Traffic (Copenhagen, Denmark)*, 22(3), 64.

Smoler M, et al. (2020) Apparent stiffness of vimentin intermediate filaments in living cells and its relation with other cytoskeletal polymers. *Biochimica et biophysica acta. Molecular cell research*, 1867(8), 118726.

Cao Y, et al. (2020) Microtubule Minus-End Binding Protein CAMSAP2 and Kinesin-14 Motor KIFC3 Control Dendritic Microtubule Organization. *Current biology : CB*, 30(5), 899.

Han Y, et al. (2020) A Labeling Strategy for Living Specimens in Long-Term/Super-Resolution Fluorescence Imaging. *Frontiers in chemistry*, 8, 601436.

Williamson CD, et al. (2019) Arf6, JIP3, and dynein shape and mediate macropinocytosis. *Molecular biology of the cell*, 30(12), 1477.