

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

Paxillin-pEGFP

RRID:Addgene_15233

Type: Plasmid

Proper Citation

RRID:Addgene_15233

Plasmid Information

URL: <http://www.addgene.org/15233>

Proper Citation: RRID:Addgene_15233

Insert Name: paxillin

Organism: Gallus gallus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:11425873](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:pEGFP-N3; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: Paxillin-pEGFP

Record Creation Time: 20220422T221833+0000

Record Last Update: 20260815T080723+0000

Ratings and Alerts

No rating or validation information has been found for Paxillin-pEGFP.

No alerts have been found for Paxillin-pEGFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 31 mentions in open access literature.

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

Lee H, et al. (2025) A Rho GTPase-effector ensemble governs cell migration behavior. Nature communications, 16(1), 9637.

Chu CH, et al. (2025) Nuclear paxillin functions as a molecular switch for alternative splicing in neurons during a critical period of brain development. The EMBO journal.

Sala S, et al. (2025) LIM Domain Proteins link molecular and global tension by recognizing strained actin in adhesions. bioRxiv : the preprint server for biology.

Deng W, et al. (2025) Consolidation of cell-ECM adhesion through direct talin-mediated actin linkage is essential for mouse embryonic morphogenesis. Communications biology, 8(1), 948.

Schmitt MS, et al. (2024) Machine learning interpretable models of cell mechanics from protein images. Cell, 187(2), 481.

Driscoll MK, et al. (2024) Proteolysis-free amoeboid migration of melanoma cells through crowded environments via bleb-driven worrying. Developmental cell, 59(18), 2414.

Lee M, et al. (2024) High-resolution assessment of multidimensional cellular mechanics using label-free refractive-index traction force microscopy. Communications biology, 7(1), 115.

Matsubara H, et al. (2023) A Programmable DNA Origami Nanospring That Reports Dynamics of Single Integrin Motion, Force Magnitude and Force Orientation in Living Cells. ACS nano, 17(14), 13185.

Posor Y, et al. (2022) Local synthesis of the phosphatidylinositol-3,4-bisphosphate lipid drives focal adhesion turnover. Developmental cell, 57(14), 1694.

Chen C, et al. (2022) Neuronal paxillin and drebrin mediate BDNF-induced force transduction and growth cone turning in a soft-tissue-like environment. Cell reports, 40(7), 111188.

Talayero VC, et al. (2021) Multiparametric Analysis of Focal Adhesions in Bidimensional Substrates. Methods in molecular biology (Clifton, N.J.), 2217, 27.

Wu S, et al. (2021) ORAI2 Promotes Gastric Cancer Tumorigenicity and Metastasis through PI3K/Akt Signaling and MAPK-Dependent Focal Adhesion Disassembly. Cancer research, 81(4), 986.

Ostrowska-Podhorodecka Z, et al. (2021) Vimentin tunes cell migration on collagen by controlling $\alpha1$ integrin activation and clustering. Journal of cell science, 134(6).

Sengupta S, et al. (2019) Altering integrin engagement regulates membrane localization of Kir2.1 channels. Journal of cell science, 132(17).

Wang WY, et al. (2019) Actomyosin contractility-dependent matrix stretch and recoil induces rapid cell migration. *Nature communications*, 10(1), 1186.

Haage A, et al. (2018) Talin Autoinhibition Regulates Cell-ECM Adhesion Dynamics and Wound Healing In Vivo. *Cell reports*, 25(9), 2401.

Haun F, et al. (2018) Identification of a novel anoikis signalling pathway using the fungal virulence factor gliotoxin. *Nature communications*, 9(1), 3524.

Young LE, et al. (2018) Focal Adhesions Undergo Longitudinal Splitting into Fixed-Width Units. *Current biology : CB*, 28(13), 2033.

Kubow KE, et al. (2017) Contact guidance persists under myosin inhibition due to the local alignment of adhesions and individual protrusions. *Scientific reports*, 7(1), 14380.

Chang CH, et al. (2017) Endosomal sorting and c-Cbl targeting of paxillin to autophagosomes regulate cell-matrix adhesion turnover in human breast cancer cells. *Oncotarget*, 8(19), 31199.