

Resource Summary Report

Generated by [RRID](#) on Aug 26, 2026

pGEXTK-Pak1 70-117

RRID:Addgene_12217

Type: Plasmid

Proper Citation

RRID:Addgene_12217

Plasmid Information

URL: <http://www.addgene.org/12217>

Proper Citation: RRID:Addgene_12217

Insert Name: Pak1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:Amersham; Backbone Size:5000; Vector Backbone:pGEX2TK; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pGEXTK-Pak1 70-117

Relevant Mutation: PBD (p21-binding domain), aa 70-117

Record Creation Time: 20220422T221639+0000

Record Last Update: 20260815T080342+0000

Ratings and Alerts

No rating or validation information has been found for pGEXTK-Pak1 70-117.

No alerts have been found for pGEXTK-Pak1 70-117.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 24 mentions in open access literature.

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

Schiff WH, et al. (2026) ARHGEF7 S-glutathionylation promotes cancer cell migration through Rac1 activation. *bioRxiv : the preprint server for biology*.

Shivamadhu MC, et al. (2025) Redox Regulation of Cell Migration via Nischarin S-glutathionylation. *bioRxiv : the preprint server for biology*.

Teuber JP, et al. (2025) Rac1 palmitoylation is required for cardiac stress adaptation and regulation of protein kinase A signaling. *JCI insight*, 10(20).

Pinilla-Macua I, et al. (2025) Cell migration signaling through the EGFR-VAV2-Rac1 pathway is sustained in endosomes. *Journal of cell science*, 138(2).

Liceras-Boillos P, et al. (2025) Sos1 ablation alters focal adhesion dynamics and increases Mmp2/9-dependent gelatinase activity in primary mouse embryonic fibroblasts. *Cell communication and signaling : CCS*, 23(1), 116.

Young KA, et al. (2024) The receptor protein tyrosine phosphatase PTPRK promotes intestinal repair and catalysis-independent tumour suppression. *Journal of cell science*, 137(14).

Bogucka-Janczi K, et al. (2023) ERK3/MAPK6 dictates CDC42/RAC1 activity and ARP2/3-dependent actin polymerization. *eLife*, 12.

Fung TS, et al. (2022) Parallel kinase pathways stimulate actin polymerization at depolarized mitochondria. *Current biology : CB*, 32(7), 1577.

Biondo A, et al. (2022) The Process of Filopodia Induction during HPV Infection. *Viruses*, 14(6).

Reyes RV, et al. (2022) The E3 Ubiquitin Ligase CRL5 Regulates Dentate Gyrus Morphogenesis, Adult Neurogenesis, and Animal Behavior. *Frontiers in neuroscience*, 16, 908719.

Ramachandran RP, et al. (2022) EspH interacts with the host active Bcr related (ABR) protein to suppress RhoGTPases. *Gut microbes*, 14(1), 2130657.

Kim J, et al. (2021) Akt-mediated Ephexin1-Ras interaction promotes oncogenic Ras signaling and colorectal and lung cancer cell proliferation. *Cell death & disease*, 12(11), 1013.

Polacheck WJ, et al. (2017) A non-canonical Notch complex regulates adherens junctions and vascular barrier function. *Nature*, 552(7684), 258.

Sharma A, et al. (2017) The prostate metastasis suppressor gene NDRG1 differentially regulates cell motility and invasion. *Molecular oncology*, 11(6), 655.

Sabbir MG, et al. (2016) Dlc1 interaction with non-muscle myosin heavy chain II-A (Myh9) and Rac1 activation. *Biology open*, 5(4), 452.

Fan SH, et al. (2016) Endosomal Na⁺/H⁺ exchanger NHE5 influences MET recycling and cell migration. *Molecular biology of the cell*, 27(4), 702.

Porter LJ, et al. (2016) Prelamin A Accumulation Attenuates Rac1 Activity and Increases the Intrinsic Migrational Persistence of Aged Vascular Smooth Muscle Cells. *Cells*, 5(4).

Zhang CC, et al. (2015) Development and application of a quantitative multiplexed small GTPase activity assay using targeted proteomics. *Journal of proteome research*, 14(2), 967.

Kutys ML, et al. (2014) An extracellular-matrix-specific GEF-GAP interaction regulates Rho GTPase crosstalk for 3D collagen migration. *Nature cell biology*, 16(9), 909.

Li J, et al. (2013) ERK and phosphoinositide 3-kinase temporally coordinate different modes of actin-based motility during embryonic wound healing. *Journal of cell science*, 126(Pt 21), 5005.