

Resource Summary Report

Generated by [RRID](#) on Aug 3, 2026

B6;129X1-*Ptk2*^{tm1Lfr}/Mmucd

RRID:MMRRC_009967-UCD

Type: Organism

Proper Citation

RRID:MMRRC_009967-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=9967

Proper Citation: RRID:MMRRC_009967-UCD

Description: Mus musculus with name B6;129X1-*Ptk2*^{tm1Lfr}/Mmucd from MMRRC.

Species: Mus musculus

Notes: Research areas: Apoptosis, Cancer, Cardiovascular, Cell Biology, Dermatology, Developmental Biology, Hematology, Immunology and Inflammation, Models for Human Disease, Neurobiology, Sensorineural; Mutation Type: Targeted Mutation ; Collection:

Phenotype: abnormal vascular regression [MP:0000364]| decreased hair follicle number [MP:0000379]| abnormal hair follicle orientation [MP:0000383]| sparse hair [MP:0000416]| abnormal hair cycle [MP:0000427]| decreased thymocyte number [MP:0000715]| thin epidermis [MP:0001218]| abnormal blood vessel morphology [MP:0001614]| decreased embryo size [MP:0001698]| disorganized yolk sac vascular plexus [MP:0001723]| hemorrhage [MP:0001914]| abnormal T cell differentiation [MP:0002145]| abnormal vitelline vasculature morphology [MP:0003229]| abnormal capillary morphology [MP:0003658]| decreased double-positive T cell number [MP:0005092]| decreased angiogenesis [MP:0005602]| abnormal vascular endothelial cell morphology [MP:0006055]| decreased keratinocyte proliferation [MP:0009584]| embryonic lethality during organogenesis [MP:0011098]| complete penetrance [MP:0013192]| decreased sebaceous gland number [MP:0013585]

Affected Gene: *Ptk2*

Catalog Number: 009967-UCD

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRRC

Source References: [PMID:14642275](#)

Alternate IDs: MMRRRC_9967-UCD, MMRRRC_009967, MMRRRC_9967

Organism Name: B6;129X1-*Ptk2^{tm1Lfr}*/Mmucd

Record Creation Time: 20230308T054902+0000

Record Last Update: 20260801T123530+0000

Ratings and Alerts

No rating or validation information has been found for B6;129X1-*Ptk2^{tm1Lfr}*/Mmucd.

No alerts have been found for B6;129X1-*Ptk2^{tm1Lfr}*/Mmucd.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRRC)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Gao C, et al. (2024) FAK loss reduces BRAFV600E-induced ERK phosphorylation to promote intestinal stemness and cecal tumor formation. Research square.

Dahiya S, et al. (2024) Acinar to ?-like cell conversion through inhibition of focal adhesion kinase. Nature communications, 15(1), 3740.

Jia C, et al. (2024) Astrocyte focal adhesion kinase reduces passive stress coping by inhibiting ciliary neurotrophic factor only in female mice. Neurobiology of stress, 30, 100621.

Jia C, et al. (2022) Female-specific neuroprotection after ischemic stroke by vitronectin-focal adhesion kinase inhibition. Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism, 42(10), 1961.

Roberts E, et al. (2022) Cell contractility and Focal Adhesion Kinase control circumferential arterial stiffness. Vascular biology (Bristol, England), 4(1), 28.

Jia C, et al. (2020) Vitronectin mitigates stroke-increased neurogenesis only in female mice and through FAK-regulated IL-6. Experimental neurology, 323, 113088.

Jia C, et al. (2019) Vitronectin from brain pericytes promotes adult forebrain neurogenesis by stimulating CNTF. *Experimental neurology*, 312, 20.

Jia C, et al. (2018) Inhibition of astrocyte FAK-JNK signaling promotes subventricular zone neurogenesis through CNTF. *Glia*, 66(11), 2456.

Shang N, et al. (2015) FAK is required for c-Met/ β -catenin-driven hepatocarcinogenesis. *Hepatology* (Baltimore, Md.), 61(1), 214.