

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

B6.FVB-Tg(MMTV-PyVT)634Mul/LelJ

RRID:IMSR_JAX:022974

Type: Organism

Proper Citation

RRID:IMSR_JAX:022974

Organism Information

URL: <https://www.jax.org/strain/022974>

Proper Citation: RRID:IMSR_JAX:022974

Description: Mus musculus with name B6.FVB-Tg(MMTV-PyVT)634Mul/LelJ from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 634; William Muller|Polyoma virus middle T antigen|Mouse Mammary Tumor Virus; mutant strain|congenic strain: Tg(MMTV-PyVT)634Mul|PyVT|MMTV

Affected Gene: transgene insertion 634; William Muller|Polyoma virus middle T antigen|Mouse Mammary Tumor Virus

Genomic Alteration: transgene insertion 634; William Muller

Catalog Number: JAX:022974

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.FVB-Tg(MMTV-PyVT)634Mul/LelJ

Record Creation Time: 20250513T053746+0000

Record Last Update: 20260725T044454+0000

Ratings and Alerts

No rating or validation information has been found for B6.FVB-Tg(MMTV-PyVT)634Mul/LellJ.

No alerts have been found for B6.FVB-Tg(MMTV-PyVT)634Mul/LellJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 40 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Li C, et al. (2025) Liver-breast communication of adipocyte-oriented exosomes drives primary mammary cancer progression. Cell metabolism.

Mei W, et al. (2025) A commonly inherited human PCSK9 germline variant drives breast cancer metastasis via LRP1 receptor. Cell, 188(2), 371.

Arnone AA, et al. (2025) Endocrine-targeting therapies shift the breast microbiome to reduce estrogen receptor-? breast cancer risk. Cell reports. Medicine, 6(1), 101880.

Gomez AM, et al. (2025) Aberrant hypothalamic neuronal activity blunts glucocorticoid diurnal rhythms in murine breast cancer. Neuron.

Rodrigues FS, et al. (2024) Bidirectional activation of stem-like programs between metastatic cancer and alveolar type 2 cells within the niche. Developmental cell, 59(18), 2398.

Roweth HG, et al. (2024) Platelet Angiopoietin-1 Protects Against Murine Models of Tumor Metastasis. Arteriosclerosis, thrombosis, and vascular biology, 44(9), 2024.

Wofford W, et al. (2024) Alterations of ceramide synthesis induce PD-L1 internalization and signaling to regulate tumor metastasis and immunotherapy response. Cell reports, 43(8), 114532.

Hänggi K, et al. (2024) Interleukin-1? release during necrotic-like cell death generates myeloid-driven immunosuppression that restricts anti-tumor immunity. Cancer cell, 42(12), 2015.

Bagheri M, et al. (2024) Pharmacological induction of chromatin remodeling drives chemosensitization in triple-negative breast cancer. Cell reports. Medicine, 5(4), 101504.

Liu CL, et al. (2023) Characterization of Mammary Tumors Arising from MMTV-PyVT Transgenic Mice. Current issues in molecular biology, 45(6), 4518.

Al Olabi R, et al. (2023) The inhibitory NKR-P1B receptor regulates NK cell-mediated mammary tumor immunosurveillance in mice. *Oncoimmunology*, 12(1), 2168233.

Beziaud L, et al. (2023) IFN γ -induced stem-like state of cancer cells as a driver of metastatic progression following immunotherapy. *Cell stem cell*, 30(6), 818.

Zhao Y, et al. (2023) Neutrophils resist ferroptosis and promote breast cancer metastasis through aconitate decarboxylase 1. *Cell metabolism*, 35(10), 1688.

Riley-Gillis B, et al. (2023) Machine learning reveals genetic modifiers of the immune microenvironment of cancer. *iScience*, 26(9), 107576.

Wu Q, et al. (2022) Fast detection, a precise and sensitive diagnostic agent for breast cancer. *Journal of experimental & clinical cancer research : CR*, 41(1), 201.

Grelet S, et al. (2022) TGF β -induced expression of long noncoding lincRNA Platr18 controls breast cancer axonogenesis. *Life science alliance*, 5(2).

Reticker-Flynn NE, et al. (2022) Lymph node colonization induces tumor-immune tolerance to promote distant metastasis. *Cell*, 185(11), 1924.

Gong Z, et al. (2022) Lung fibroblasts facilitate pre-metastatic niche formation by remodeling the local immune microenvironment. *Immunity*, 55(8), 1483.

Sun L, et al. (2022) Isolation of mouse mammary carcinoma-derived macrophages and cancer cells for co-culture assays. *STAR protocols*, 3(4), 101833.

Liu X, et al. (2022) CD16 $^{+}$ fibroblasts foster a trastuzumab-refractory microenvironment that is reversed by VAV2 inhibition. *Cancer cell*, 40(11), 1341.