

Resource Summary Report

Generated by ASWG on Sep 1, 2026

FVB-Tg(MMTV-ErbB2)NK1Mul/J

RRID:IMSR_JAX:005038

Type: Organism

Proper Citation

RRID:IMSR_JAX:005038

Organism Information

URL: <https://www.jax.org/strain/005038>

Proper Citation: RRID:IMSR_JAX:005038

Description: Mus musculus with name FVB-Tg(MMTV-ErbB2)NK1Mul/J from IMSR.

Species: Mus musculus

Synonyms: FVB-Tg(MMTV-ErbB2)1Lcd/J

Notes: gene symbol note: erb-b2 receptor tyrosine kinase 2|transgene insertion NK1; William Muller|Mouse Mammary Tumor Virus; coisogenic strain|mutant strain: ErbB2|Tg(MMTV-ErbB2)NK1Mul|MMTV

Affected Gene: erb-b2 receptor tyrosine kinase 2|transgene insertion NK1; William Muller|Mouse Mammary Tumor Virus

Genomic Alteration: transgene insertion NK1; William Muller

Catalog Number: JAX:005038

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: FVB-Tg(MMTV-ErbB2)NK1Mul/J

Record Creation Time: 20250513T053647+0000

Record Last Update: 20260829T044938+0000

Ratings and Alerts

No rating or validation information has been found for FVB-Tg(MMTV-ErbB2)NK1Mu/J.

No alerts have been found for FVB-Tg(MMTV-ErbB2)NK1Mu/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 49 mentions in open access literature.

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

Li Z, et al. (2025) Sumoylated ETV1 establishes mouse mammary cancer stem cells that support tumorigenesis by non-stem cancer cells. *Developmental cell*, 60(17), 2264.

Moyer CL, et al. (2024) IRX4204 Induces Senescence and Cell Death in HER2-positive Breast Cancer and Synergizes with Anti-HER2 Therapy. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 30(11), 2558.

Mendiburu-Eliçabe M, et al. (2023) NCAPH Drives Breast Cancer Progression and Identifies a Gene Signature that Predicts Luminal A Tumor Recurrence. *Research square*.

Wan Y, et al. (2023) C1GalT1 expression reciprocally controls tumour cell-cell and tumour-macrophage interactions mediated by galectin-3 and MGL with double impact on cancer development and progression. *Cell death & disease*, 14(8), 547.

Mazumdar A, et al. (2022) Targeting the mTOR Pathway for the Prevention of ER-Negative Breast Cancer. *Cancer prevention research (Philadelphia, Pa.)*, 15(12), 791.

Yuan H, et al. (2022) Resistance of MMTV-NeuT/ATTAC mice to anti-PD-1 immune checkpoint therapy is associated with macrophage infiltration and Wnt pathway expression. *Oncotarget*, 13, 1350.

Ghaleb A, et al. (2022) Low-dose but not high-dose γ -irradiation elicits the dominant-negative effect of mutant p53 in vivo. *Cancer letters*, 530, 128.

Eyermann CE, et al. (2021) The HSP-RTK-Akt axis mediates acquired resistance to Ganetespib in HER2-positive breast cancer. *Cell death & disease*, 12(1), 126.

Eyermann CE, et al. (2021) γ N63 suppresses the ability of pregnancy-identified mammary epithelial cells (PIMECs) to drive HER2-positive breast cancer. *Cell death & disease*, 12(6), 525.

Singh SP, et al. (2021) Haploinsufficiency Interactions between RALBP1 and p53 in ERBB2 and PyVT Models of Mouse Mammary Carcinogenesis. *Cancers*, 13(13).

Chen K, et al. (2020) Endogenous Cyclin D1 Promotes the Rate of Onset and Magnitude of Mitogenic Signaling via Akt1 Ser473 Phosphorylation. *Cell reports*, 32(11), 108151.

Ghaleb A, et al. (2020) Mutant p53 drives the loss of heterozygosity by the upregulation of Nek2 in breast cancer cells. *Breast cancer research : BCR*, 22(1), 133.

Sharma M, et al. (2020) Nutritional combinatorial impact on the gut microbiota and plasma short-chain fatty acids levels in the prevention of mammary cancer in Her2/neu estrogen receptor-negative transgenic mice. *PloS one*, 15(12), e0234893.

Farabaugh SM, et al. (2020) IGF1R constitutive activation expands luminal progenitors and influences lineage differentiation during breast tumorigenesis. *Developmental biology*, 463(1), 77.

Kluz PN, et al. (2020) Cancer cell-intrinsic function of CD177 in attenuating β -catenin signaling. *Oncogene*, 39(14), 2877.

Petrova SC, et al. (2020) Regulation of breast cancer oncogenesis by the cell of origin's differentiation state. *Oncotarget*, 11(43), 3832.

Santoro A, et al. (2019) p53 Loss in Breast Cancer Leads to Myc Activation, Increased Cell Plasticity, and Expression of a Mitotic Signature with Prognostic Value. *Cell reports*, 26(3), 624.

Ghaleb A, et al. (2019) Irradiation induces p53 loss of heterozygosity in breast cancer expressing mutant p53. *Communications biology*, 2, 436.

Yu JM, et al. (2019) TRIB3 supports breast cancer stemness by suppressing FOXO1 degradation and enhancing SOX2 transcription. *Nature communications*, 10(1), 5720.

Feng WW, et al. (2019) CD36-Mediated Metabolic Rewiring of Breast Cancer Cells Promotes Resistance to HER2-Targeted Therapies. *Cell reports*, 29(11), 3405.