

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

[B6.129S2-Trp53^{tm1Tyj/J}](#)

RRID:IMSR_JAX:002101

Type: Organism

Proper Citation

RRID:IMSR_JAX:002101

Organism Information

URL: <https://www.jax.org/strain/002101>

Proper Citation: RRID:IMSR_JAX:002101

Description: Mus musculus with name B6.129S2-Trp53^{tm1Tyj/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: transformation related protein 53; mutant strain|congenic strain: Trp53

Affected Gene: transformation related protein 53

Genomic Alteration: targeted mutation 1; Tyler Jacks

Catalog Number: JAX:002101

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S2-Trp53^{tm1Tyj/J}

Record Creation Time: 20250513T053629+0000

Record Last Update: 20260725T044337+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S2-Trp53^{tm1Tyj/J}.

No alerts have been found for B6.129S2-Trp53^{tm1Tyj/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 104 mentions in open access literature.

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

Iyyanar PPR, et al. (2026) Cse1l is critical for cell survival, craniofacial and cardiac development. Developmental biology, 530, 188.

Spring J, et al. (2025) Microbiota does not influence tumor development in two models of heritable cancer. mBio, 16(3), e0386624.

Owens SM, et al. (2025) Intrinsic p53 activation restricts gammaherpesvirus driven germinal center B cell expansion during latency establishment. Nature communications, 16(1), 951.

Keahi DL, et al. (2025) G-quadruplexes as a source of vulnerability in BRCA2-deficient granule cell progenitors and medulloblastoma. Proceedings of the National Academy of Sciences of the United States of America, 122(35), e2503872122.

Yang T, et al. (2025) The PLEKHA1-TACC2 fusion gene drives tumorigenesis via vascular mimicry formation in esophageal squamous-cell carcinoma. Cell death and differentiation, 32(12), 2323.

Mosialou I, et al. (2025) A niche driven mechanism determines response and a mutation-independent therapeutic approach for myeloid malignancies. Cancer cell, 43(6), 1007.

Ahmad ST, et al. (2025) Genetic modeling of ELP1-associated Sonic hedgehog medulloblastoma identifies MDM2 as a selective therapeutic target. Cancer cell, 43(6), 1141.

Wang J, et al. (2025) p21, ccng1, foxo3b, and fbxw7 contribute to p53-dependent cell cycle arrest. iScience, 28(6), 112558.

Li Q, et al. (2025) Long noncoding RNA-dependent control of Myc transcriptional bursting. Cell reports, 44(10), 116439.

Copeland SE, et al. (2024) MAD1 upregulation sensitizes to inflammation-mediated tumor formation. PLoS genetics, 20(10), e1011437.

Keahi DL, et al. (2024) G-quadruplexes are a source of vulnerability in BRCA2 deficient granule cell progenitors and medulloblastoma. bioRxiv : the preprint server for biology.

Wei SJ, et al. (2024) Ketogenic diet induces p53-dependent cellular senescence in multiple organs. Science advances, 10(20), eado1463.

Zeng L, et al. (2024) The vitamin D receptor is essential for the replication of pseudorabies virus. *mBio*, 15(12), e0213724.

Hartl K, et al. (2024) p53 terminates the regenerative fetal-like state after colitis-associated injury. *Science advances*, 10(43), eadp8783.

Lahusen A, et al. (2024) A pancreatic cancer organoid-in-matrix platform shows distinct sensitivities to T cell killing. *Scientific reports*, 14(1), 9377.

Ming S, et al. (2024) Alpha herpesvirus manipulates retinoic acid metabolism for optimal replication. *iScience*, 27(7), 110144.

Alsina FC, et al. (2024) The RNA-binding protein EIF4A3 promotes axon development by direct control of the cytoskeleton. *Cell reports*, 43(9), 114666.

Fifield BA, et al. (2024) Atypical cell cycle regulation promotes mammary stem cell expansion during mammary development and tumorigenesis. *Breast cancer research : BCR*, 26(1), 106.

Wang J, et al. (2024) A platform of functional studies of ESCC-associated gene mutations identifies the roles of TGFBR2 in ESCC progression and metastasis. *Cell reports*, 43(11), 114952.

Mills M, et al. (2024) Single-cell and bulk transcriptional profiling of mouse ovaries reveals novel genes and pathways associated with DNA damage response in oocytes. *Developmental biology*, 517, 55.