

Resource Summary Report

Generated by [NIF](#) on Sep 17, 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: 20260912T060414+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 113 mentions in open access literature.

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

Xia W, et al. (2026) Expansion of outer cortical CUX2 neurons requires adaptations for DNA repair. *Nature*, 653(8115), 819.

He J, et al. (2026) Genetically engineered ErbB2 overexpression sensitizes organoid-derived tumors to checkpoint inhibition in a syngeneic model of gastric cancer. *Journal for immunotherapy of cancer*, 14(2).

Thege FI, et al. (2026) An autochthonous CRISPR activation screening platform for characterizing tissue-specific oncogene selection. *Cell reports. Medicine*, 7(5), 102759.

Stewart JA, et al. (2026) High-fidelity rare structural variant detection with HiFiRE3 reduced representation via restriction enzyme ends. *bioRxiv : the preprint server for biology*.

Du J, et al. (2026) Gut Microbiota-derived Acetate Safeguards the Colonic Epithelial Acetyl-CoA Reserve to Avert Colonic Senescence. *bioRxiv : the preprint server for biology*.

Abdelfattah N, et al. (2026) Male-biased Yap1-Cd276/B7-H3 axis for immune evasion in medulloblastoma. *Cancer cell*, 44(4), 760.

Ruiz CF, et al. (2026) Diet-induced phospholipid remodeling dictates ferroptosis sensitivity and tumorigenesis in the pancreas. *Cancer discovery*.

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

Hayward MK, et al. (2026) Tissue tension fosters macrophage-driven lipid peroxidation-induced DNA damage. *Cancer cell*, 44(6), 1255.

Liu H, et al. (2026) ARID1A loss drives gastric signet ring cell carcinoma by regulating mucin production and secretion. *Nature communications*, 17(1).

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

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

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.

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.

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*.