

Resource Summary Report

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

B6.Cg-Tg(Vil1-cre)1000Gum/J

RRID:IMSR_JAX:021504

Type: Organism

Proper Citation

RRID:IMSR_JAX:021504

Organism Information

URL: <https://www.jax.org/strain/021504>

Proper Citation: RRID:IMSR_JAX:021504

Description: Mus musculus with name B6.Cg-Tg(Vil1-cre)1000Gum/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |villin 1|transgene insertion 1000; Deborah L Gumucio; mutant strain|congenic strain: |Vil1|Tg(Vil1-cre)1000Gum

Affected Gene: |villin 1|transgene insertion 1000; Deborah L Gumucio

Genomic Alteration: transgene insertion 1000; Deborah L Gumucio

Catalog Number: JAX:021504

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Vil1-cre)1000Gum/J

Record Creation Time: 20250513T053743+0000

Record Last Update: 20260725T044451+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Vil1-cre)1000Gum/J.

No alerts have been found for B6.Cg-Tg(Vil1-cre)1000Gum/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Muppirala AN, et al. (2026) Tachykinin signaling defines distinct populations of glia in the enteric nervous system. *Neuron*.

Sebo ZL, et al. (2025) Metformin inhibits mitochondrial complex I in intestinal epithelium to promote glycemic control. *bioRxiv : the preprint server for biology*.

Jaschke NP, et al. (2025) Gut-to-brain signaling restricts dietary protein intake during recovery from catabolic states. *Cell*, 188(26), 7481.

Das M, et al. (2025) *S. aureus* exposure during cutaneous antigen sensitization causes basophil- and interleukin-4-dependent exaggerated food anaphylaxis. *Immunity*.

Zhou L, et al. (2025) Mina53 catalyzes arginine demethylation of p53 to promote tumor growth. *Cell reports*, 44(2), 115242.

Fachi JL, et al. (2025) Fiber- and acetate-mediated modulation of MHC-II expression on intestinal epithelium protects from *Clostridioides difficile* infection. *Cell host & microbe*, 33(2), 235.

Picó S, et al. (2025) Comparative analysis of mouse strains for in vivo induction of reprogramming factors. *Cell reports*, 44(7), 115879.

Song Y, et al. (2025) Stratification of enterochromaffin cells by single-cell expression analysis. *eLife*, 12.

Díez-Sánchez A, et al. (2024) LSD1 drives intestinal epithelial maturation and controls small intestinal immune cell composition independent of microbiota in a murine model. *Nature communications*, 15(1), 3412.

Billipp TE, et al. (2024) Tuft cell-derived acetylcholine promotes epithelial chloride secretion and intestinal helminth clearance. *Immunity*, 57(6), 1243.

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

Touhara KK, et al. (2024) Crypt and Villus Enterochromaffin Cells are Distinct Stress Sensors in the Gut. *bioRxiv : the preprint server for biology*.

Sharifkhodaei Z, et al. (2023) Colitis-induced upregulation of tumor necrosis factor receptor-2 (TNFR2) terminates epithelial regenerative signaling to restore homeostasis. *iScience*, 26(10), 107829.

Seike K, et al. (2023) Ambient oxygen levels regulate intestinal dysbiosis and GVHD severity after allogeneic stem cell transplantation. *Immunity*, 56(2), 353.

Servin-Vences MR, et al. (2023) PIEZO2 in somatosensory neurons controls gastrointestinal transit. *Cell*, 186(16), 3386.

Duan S, et al. (2023) Clinically Defined Mutations in MEN1 Alter Its Tumor-suppressive Function Through Increased Menin Turnover. *Cancer research communications*, 3(7), 1318.

Xie Z, et al. (2022) The gut-to-brain axis for toxin-induced defensive responses. *Cell*, 185(23), 4298.

Ohara TE, et al. (2022) Adaptive differentiation promotes intestinal villus recovery. *Developmental cell*, 57(2), 166.

Zindl CL, et al. (2022) A nonredundant role for T cell-derived interleukin 22 in antibacterial defense of colonic crypts. *Immunity*, 55(3), 494.

Peuker K, et al. (2022) Microbiota-dependent activation of the myeloid calcineurin-NFAT pathway inhibits B7H3- and B7H4-dependent anti-tumor immunity in colorectal cancer. *Immunity*, 55(4), 701.