

Resource Summary Report

Generated by T1D on Sep 20, 2026

B6.Cg-Tg(Vil1-cre)997Gum/J

RRID:IMSR_JAX:004586

Type: Organism

Proper Citation

RRID:IMSR_JAX:004586

Organism Information

URL: <https://www.jax.org/strain/004586>

Proper Citation: RRID:IMSR_JAX:004586

Description: Mus musculus with name B6.Cg-Tg(Vil1-cre)997Gum/J from IMSR.

Species: Mus musculus

Synonyms: B6.SJL-Tg(Vil-cre)997Gum/J. B6.Cg-Tg(Vil-cre)997Gum/J. B6;SJL-Tg(Vil-cre)997Gum

Notes: gene symbol note: villin 1||transgene insertion 997; Deborah L Gumucio; mutant strain|congenic strain: Vil1||Tg(Vil1-cre)997Gum

Affected Gene: villin 1||transgene insertion 997; Deborah L Gumucio

Genomic Alteration: transgene insertion 997; Deborah L Gumucio

Catalog Number: JAX:004586

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Vil1-cre)997Gum/J

Record Creation Time: 20250513T053645+0000

Record Last Update: 20260919T054835+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Vil1-cre)997Gum/J.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human hemochromatosis type 1.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 203 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#) .

Han Y, et al. (2026) UHRF1 deficiency exacerbates intestinal inflammation by epigenetic modulation of NPY1R gene methylation. JCI insight, 11(3).

Kang CW, et al. (2026) Atypical protein kinase C activation drives intestinal glucose excretion in diabetes mellitus. Nature communications, 17(1).

Yu W, et al. (2026) ZNF33A activates Wnt/ β -catenin signaling and promotes BCAA catabolism in colorectal cancer. Cell communication and signaling : CCS, 24(1).

Li J, et al. (2026) Endothelial Ffar4 protects against diabetic kidney disease by potentiating endogenous retinoic acid metabolism. Cellular & molecular biology letters, 31(1).

Xu S, et al. (2026) DUOX2-Driven Oxidative Stress Alters the Gut Redox Niche and Promotes Microbial Dysbiosis in Crohn's Disease. Antioxidants (Basel, Switzerland), 15(3).

Yu S, et al. (2026) Intestinal epithelial formyl peptide receptor 2 contributes to intestinal epithelium homeostasis and injury repair by regulating intestinal stem cell and transit-amplifying cell proliferation and differentiation. Life metabolism, 5(3), loaf045.

Ju T, et al. (2026) Deletion of Core 1 β 3GalT-specific molecular chaperone (Cosmc) in murine intestinal epithelia leads to major alterations in glycocalyx and tumorigenesis. The Journal of biological chemistry, 302(4), 111319.

Bi Z, et al. (2026) Elovl6 inhibits colorectal cancer progression through stearic acid-mediated mitochondrial fusion and metabolic reprogramming. Science advances, 12(7), eadz2892.

Xie H, et al. (2026) Kynurenine mediates the chemotherapy-induced intestinal toxicity through modulation of gut microbiota. Nature communications, 17(1).

Thapa A, et al. (2026) Mucosally sourced complement factor B modulates the host response to colitis. bioRxiv : the preprint server for biology.

Srinivasan T, et al. (2026) The gut microbiota directs vitamin A flux to regulate intestinal T cell development. *Cell host & microbe*.

Katafuchi T, et al. (2026) Site-specific bidirectional regulation of Fgf15 transcription in the mouse ileum. *American journal of physiology. Gastrointestinal and liver physiology*, 330(5), G601.

Bashir H, et al. (2026) Chronic stress unleashes an intratumor phage-fibroblast-B cell circuit to promote tumor growth. *Cancer cell*, 44(7), 1458.

Xu Z, et al. (2026) Intestinal Neutral Ceramidase Deficiency Triggers Regulatory T Cell Response via Gd3 to Protect the Host from Intestinal Inflammation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(5), e12681.

Dong X, et al. (2026) Gut-microbiota-derived 3-indoleacrylic acid alleviates neonatal necrotizing enterocolitis by inhibiting epithelial necroptosis. *Cell reports. Medicine*, 7(4), 102721.

Xu C, et al. (2025) FTO facilitates colorectal cancer chemoresistance via regulation of NUPR1-dependent iron homeostasis. *Redox biology*, 83, 103647.

Hai S, et al. (2025) Intestinal IL-33 promotes microbiota-derived trimethylamine N -oxide synthesis and drives metabolic dysfunction-associated steatotic liver disease progression by exerting dual regulation on HIF-1?. *Hepatology (Baltimore, Md.)*, 82(1), 184.

Luo R, et al. (2025) TLR4 interaction with PIEZO1 facilitates the 5-HT-mediated intestinal motility dysfunction in offspring mice induced by LPS exposure during pregnancy. *Genes & diseases*, 12(5), 101707.

Wang Y, et al. (2025) Nonsense-mediated mRNA decay inhibits TRAF6-dependent anti-tumor immunity in colorectal cancer. *Cell reports. Medicine*, 6(12), 102463.

Li Z, et al. (2025) Lack of intestinal Mucin-1 impairs intestinal epithelial barrier and promotes metabolic dysfunction-associated steatotic liver disease in male mice. *Nature communications*, 17(1), 321.