Also Known As: B6:SJL-Tg(Vil-cre)997Gum, Villin-cre, B6.SJL-Tg(Vil-cre)997Gum/J, 12.4KbVilCre line 997, B6.Cg-Tg(Vil-cre)997Gum/J

These Vil1-cre mice express Cre recombinase in villus and crypt epithelial cells of the small and large intestines and may be useful in studies of intestinal organogenesis. In contrast to Villin-cre transgenic mice from founder line 1000 (Stock No. 021504) that are reported be absent of Cre recombinase activity in gonads, these Villin-cre transgenic mice from founder line 997 are reported to have a very low level (<1%) of cells with Cre recombinase activity in the testes.

Donating Investigator
Deborah L. Gumucio, University of Michigan

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td></td>
<td>N5×N19F7</td>
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Tg(Vil1-cre)997Gum

Allele Type
Transgenic (Recombinase-expressing)

VIEW GENETICS

RESEARCH APPLICATIONS
Research Tools
Cancer Research

VIEW ALL RESEARCH APPLICATIONS
Villin-cre transgenic mice have the mouse villin 1 promoter directing expression of Cre recombinase to villus and crypt epithelial cells of the small and large intestines, in a pattern that closely resembles endogenous Vil1 expression. When crossed with a strain containing a loxP site-flanked sequence of interest, Cre-mediated recombination results in tissue-specific deletion of the target. The donating investigator indicates that expression is generally continuous, but that a small amount of mosaicism is noted in the colon. Onset of transgene expression is at 12.5 dpc, which is delayed from the endogenous mouse Vil1 gene expression onset of 9.0 dpc.

Villin-cre transgenic mice from founder line 997 (Stock No. 004586) are reported to have a very low level (<1%) of cells with Cre recombinase activity in the testes. This is in contrast to Villin-cre transgenic mice from founder line 1000 (Stock No. 021504) that are reported be absent of Cre recombinase activity in gonads.

Villin-cre transgenic mice from founder line 997 (also called Vil1-Cre 997, Vill-Cre 997, Villin-Cre 997, 12.4KbVilCre 997 or VCre997) are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities as hemizygotes. The phenotype of homozygous Vil1-Cre 997 mice is not reported.
Genotyping Protocols
High Resolution Melting: Tg(Vil-cre)997Gum-alternate1
Probe: Tg(Vil1-cre)997Gum-Chr17
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred together, to wildtype (noncarrier) mice from the colony, or to C57BL/6J inbred mice (Stock No. 000664). The phenotype of homozygous Vil1-Cre 997 mice is not reported.
Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote
Hemizygote x Noncarrier

Citation
When using the JAX inbred mouse strain in a publication, please cite the originating articles and include JAX stock #004586 in your Materials and Methods section.

Facility Barrier Level Descriptions
AX12 (Maximum)

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Vil1-cre)997Gum</td>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Male</td>
<td>Hemizygous for Tg(Vil1-cre)997Gum</td>
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<tr>
<td>Approx 4-8 weeks</td>
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<td>Noncarrier</td>
<td>$76.22</td>
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<td>Approx 4-8 weeks</td>
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### Breeder Pair

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<tr>
<td>Male</td>
<td>Hemizygous for Tg(Vil1-cre)997Gum</td>
<td></td>
</tr>
</tbody>
</table>

### Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

### Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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#### Terms of Use

General Terms and Conditions

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#### Licensing Information

Phone: 207-288-6470  
Email: TechTran@jax.org

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains
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TOMORROW'S CURES