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

Stock No: 021504 | Vil-Cre 1000

Congenic, Transgenic

Also Known As: Vil-Cre 1000

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 addition, Vil1-cre transgenic mice from founder line 1000 are reported to be absent of Cre recombinase activity in gonads.

Donating Investigator

Deborah L Gumucio, University of Michigan

GENETIC OVERVIEW

Genetic Background: N10+pN4F4

Tg(Vil1-cre)1000Gum

Allele Type: Transgenic (Recombinase-expressing)

RESEARCH APPLICATIONS

Research Tools

BASE PRICE

Starting at:
$76.22 Domestic price for female
307.22 Domestic price for breeder pair

VIEW PRICE LIST

Details

Detailed Description

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 Vill1 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 Vill1 gene expression onset of 9.0 dpc.

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

Villin-cre transgenic mice from founder line 1000 (also called Vill1-Cre 1000, Vill-Cre 1000, Villin-Cre 1000, 12.4KbVillCre 1000 or VCre1000) are viable and fertile as hemizygotes. Homozygous Vill1-Cre 1000 mice are viable but are not healthy and die prematurely.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Vill1-cre)1000Gum

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
High Resolution Melting: Tg(Vil1-cre)1000Gum-Alternate 1
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 donating investigator reports that homozygotes are viable but are not healthy and die prematurely.
Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote
Hemizygote x Noncarrier

Citation
When using the Tg(Vil1-cre)1000 mouse strain in a publication, please cite the originating article(s) and include JAX stock #021504 in your Materials and Methods section.

Facility Barrier Level Descriptions
AX18 (Maximum)

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

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<th>Live Mouse</th>
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<tr>
<td>AGE</td>
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<td>GENOTYPE</td>
<td>PRICE</td>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Vil1-cre)1000Gum</td>
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### Related Products and Services

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<tr>
<th>Product</th>
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<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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Related Strains

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