The Jackson Laboratory

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

Stock No: **021504** | Vil-Cre 1000

Congenic, Transgenic

Live mice available in varying quantities. Ask Customer Service for details.

PLACE ORDER

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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

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GENETIC OVERVIEW

Genetic Background

Generation

N10+pN4F10
(2020-12-20 00:00:00)

Tg(Vil1-cre)1000Gum

Allele Type

Transgenic (Recombinase-expressing)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$286.78 Domestic price for female 4-week

315.29 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 *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 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 Vil1-Cre 1000, Vil-Cre 1000, Villin-Cre 1000, 12.4KbVilCre 1000 or VCre1000) are viable and fertile as hemizygotes. Homozygous Vil1-Cre 1000 mice are viable but are not healthy and die prematurely.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Vil1-cre)1000Gum

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR: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 Vil-Cre 1000 mouse strain in a publication, please cite the originating article(s) and include JAX stock #021504 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

AX18 (Maximum)

Pricing & Availability

Available

Live mice available in varying quantities. Ask Customer Service for details.

Domestic | **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Domestic Pricing for

- Commercial & For-Profit
- Not-For-Profit & Academic

LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Noncarrier	$128.51
	Male	Noncarrier	$128.51
4 weeks	Female	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
	Male	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
5 weeks	Female	Noncarrier	$128.51
	Male	Noncarrier	$128.51
5 weeks	Female	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
	Male	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
6 weeks	Female	Noncarrier	$128.51
	Male	Noncarrier	$128.51
6 weeks	Female	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
	Male	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
7 weeks	Female	Noncarrier	$128.51
	Male	Noncarrier	$128.51
7 weeks	Female	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
	Male	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
8 weeks	Female	Noncarrier	$128.51
	Male	Noncarrier	$128.51
8 weeks	Female	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
	Male	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
9 weeks	Female	Noncarrier	$128.51
	Male	Noncarrier	$128.51
9 weeks	Female	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
	Male	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
10 weeks	Female	Noncarrier	$128.51
	Male	Noncarrier	$128.51
10 weeks	Female	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78

	SEX		
	Male	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
11 weeks	Female	Noncarrier	$128.51
	Male	Noncarrier	$128.51
11 weeks	Female	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
	Male	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
12 weeks	Female	Noncarrier	$128.51
	Male	Noncarrier	$128.51
12 weeks	Female	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78
	Male	Hemizygous for Tg(Vil1-cre)1000Gum	$286.78

BREEDER PAIR

SEX	GENOTYPE	PRICE
Female	Hemizygous for Tg(Vil1-cre)1000Gum	$415.29
Male	Noncarrier	
Female	Noncarrier	$415.29
Male	Hemizygous for Tg(Vil1-cre)1000Gum	

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.Cg-Tg(Vil1-cre)1000Gum/J	$2595.00

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.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

TERMS OF USE

General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by companies or for-profit entities requires a no-fee JAX Leap License prior to shipping.

LICENSING INFORMATION

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

Related Strains

All

By Allele

By Gene

By Collection

Leading the search for

TOMORROW'S CURES