These Chm:Cre transgenic mice express cre under the control of the baboon CMA1, chymase 1, mast cell, promoter and may be useful for generating conditional mutations for studying gain/loss of function or fate mapping in resident mast cell lineages of the colon and lung.

Donating Investigator
Thomas Hehlgans, Institute of Immunology

B6.FVB-Tg(CMA1-cre)6Thhe/J
Stock No: 014643
Congenic, Transgenic

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

PLACE ORDER

BASE PRICE
Starting at:
Details

Detailed Description

These transgenic mice express Cre recombinase under the direction of the baboon CMA1, chymase 1, mast cell, promoter. Cre recombinase transcript (mRNA) is detected in lung and colon analyzed by RT-PCR. Transgene expression (mRNA by RT-PCR) and Cre recombinase activity is not detected in skin or heart tissues. Recombinase activity is detected in lung and colon tissue, specifically in resident mast cells. Transgene expression and Cre recombinase activity is not detected in cultured bone marrow derived mast cells by RT-PCR analysis or FACS analysis. When crossed with a strain containing loxP site flanked sequence of interest, Cre-mediated recombination results in tissue-specific deletion of the target. Mice hemizygous for the transgenic insert are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. The Donating Investigator reports that homozygotes are not viable.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(CMA1-cre)6Thhe

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References
Technical Support

Genotyping Protocols
Standard PCR: Tg(Cma1-cre)6Thhe Alternate1
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as hemizygotes. The Donating Investigator reports that homozygotes are not viable.

Additional Breeding and Husbandry Support

Citation
When using the B6.FVB-Tg(CMA1-cre)6Thhe/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #014643 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Cryo Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic

Cryorecovery - Domestic Pricing

<table>
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<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<td>Cryo Recovery</td>
<td>Hemizygous or Non carrier for Tg(CMA1-cre)2038Thhe</td>
<td>$2,854.50</td>
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Related Products and Services

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<th>DESCRIPTION</th>
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<td>Frozen Mouse Embryo</td>
<td>B6.FVB-Tg(CMA1-cre)6Thhe/J Frozen Embryo</td>
<td>$2595.00</td>
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Pricing effective for USA, Canada and Mexico shipping destinations
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Phone: 207-288-6470
Email: TechTran@jax.org

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By Allele
By Gene
By Collection

All Related Strains

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Stock No: 006785 | Cd19cre
Related By: cre

**B6.129S-Chattm1(cre)Lowl/MwarJ**
Stock No: 031661 | ChAT-IRES-Cre (Δneo) (C57BL/6J) , B6J.ChAT-IRES-Cre (Δneo) , B6J.ChAT-IRES-Cre::Δneo
Related By: cre
B6.129S2-Emx1 tm1(cre)Krij/J
Stock No: 005628 | Emx1^Cre, Emx1-Cre
Related By: cre

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