C57BL/6-Tg(Tcra2D2,Tcrb2D2)1Kuch/J

Stock No: 006912 | TCR MOG

Available now

PLACE ORDER

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

Overview

Also Known As: TCR MOG

These 2D2 TCR transgenic mice develop spontaneous diseases similar in incidence and manifestation to those developed by multiple sclerosis patients. These mice may be useful for studying the myelin oligodendrocyte glycoprotein specific, self-reactive T cell repertoire, as well as to study optic neuritis and its relationship to the development of autoimmunity in the CNS.
**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Tg(Tcra2D2,Tcrb2D2)1Kuch</td>
<td>N?+N10 (2019-04-12 00:00:00)</td>
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</tbody>
</table>

**Tg(Tcra2D2,Tcrb2D2)1Kuch**

**Allele Type**

Transgenic (Inserted expressed sequence)

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**RESEARCH APPLICATIONS**

Research Tools

- Immunology, Inflammation and Autoimmunity Research
- Sensorineural Research

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**BASE PRICE**

Starting at:

- $255.00 Domestic price for female 4-week
- $333.51 Domestic price for breeder pair

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### Detailed Description

Mice hemizygous for this “2D2 TCR” (or MOG 35-55 specific TCR) transgene are viable and fertile. The myelin oligodendrocyte glycoprotein (MOG)-specific transgenic T cells are not deleted nor tolerized and are functionally competent. The majority of thymocytes in 2D2 TCR mice express high and intermediate levels of the transgenic T cell receptor (TCR), indicating efficient positive selection of transgenic T cells. The majority of CD4⁺ splenocytes express the transgenic TCR (as defined by Valpha3.2 and Vbeta11 expression). Cultured splenocytes are responsive to whole myelin oligodendrocyte glycoprotein (MOG) and to MOG 35-55 peptide, but not to ovalbumin (OVA) control peptides. From between 2.5 to 5 months of age, 4% of 2D2 TCR mice develop spontaneous...
Genotyping Protocols
MELT: Tg(Tcra2D2)1Kuch
QPCR: Tg(Tcra2D2,Tcrb2D2)1Kuch
Genotyping resources and troubleshooting
Dietary Information
LabDiet® 5K52 formulation (6% fat)
Breeding Considerations
When maintaining a live colony, hemizygous mice are bred to wildtype (noncarrier) siblings or to C57BL/6J inbred mice (Stock No. 000664).
Additional Breeding and Husbandry Support
### Mating System

+/+ sibling x Hemizygote

### Citation

When using the Tg(Tcr2D2,Tcrb2D2)1Kuch mouse strain in a publication, please cite the originating article(s) and include JAX stock #006912 in your Materials and Methods section.

- AX10 (Standard)

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### Pricing & Availability

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

Available Now

### Domestic & International

Pricing effective for USA, Canada and Mexico shipping destinations

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### Breeder Pair

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**Related Products and Services**

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

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

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