Most mice homozygous for the \textit{Trp53} mutation develop tumors (principally lymphomas and sarcomas) at 3-6 months of age. Heterozygous mice develop tumors at about 10 months of age. These mice model some of the features of human Li-Fraumeni syndrome, a form of familial breast cancer with mutations in TRP53.

Donating Investigator
Dr. Tyler Jacks, Massachusetts Institute of Technology

\textit{tm1Tyj}

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

Detailed Description

Mice homozygous for the Trp53<sup>tm1Tyj</sup> mutation show no visible phenotype but most develop tumors (principally lymphomas and sarcomas) at 3-6 months of age. Heterozygous mice develop tumors at about 10 months of age. These mice model some of the features of human Li-Fraumeni syndrome, a form of familial breast cancer with mutations in TRP53. Homozygous mice may produce a litter before succumbing to tumors.

Development

Control Suggestions

Selected References

Genetics

Trp53<sup>tm1Tyj</sup>

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
Standard PCR: Trp53 Alternate2
Probe: Trp53-Probe
Genotyping resources and troubleshooting

Breeding Considerations

This Trp53<sup>dm1Tyj</sup> strain is maintained by mating heterozygous females by homozygous male sibs. Homozygous and heterozygous mice are available for sales. 7-20-98 Expected coat color from breeding: White Bellied Agouti.

Additional Breeding and Husbandry Support

Appearance
white-bellied agouti
Related Genotype: A<sup>W</sup>/A<sup>W</sup>

Citation
When using the B6;129S2-Trp53<sup>dm1Tyj</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #002103 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

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

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<th>SERVICE/PRODUCT</th>
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Pricing effective for USA, Canada and Mexico shipping destinations.
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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.

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LICENSING INFORMATION

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

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All

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