

**C.129(B6)-Trp53bp2<sup>tm1Cdl0</sup> /J**Stock No: **017615** Congenic, Targeted Mutation

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Charles D Lopez, Oregon Health and Science University

[R E A D M O R E +](#)**GENETIC OVERVIEW****Genetic Background****Generation***Trp53bp2<sup>tm1Cdl0</sup>***Alele Type**

Targeted (Null/Knockout)

**Gene Symbol***Trp53bp2***Gene Name**

transformation related protein 53 binding protein 2

[V I E W G E N E T I C S](#)**RESEARCH APPLICATIONS**

Cancer Research

Apoptosis Research

[V I E W A L L R E S E A R C H A P P L I C A T I O N S](#)

## ⊖ Detailed Description

A *loxP*-flanked PGK-neo cassette replaces exons 10-17 of the transformation related protein 53 binding protein 2 (*Trp53bp2*) gene, abolishing gene function in this strain. ASPP2, encoded by the *Trp53bp2* gene, is a pro-apoptotic protein which also inhibits cell growth through interactions with other regulatory molecules including members of the p53 family. The disrupted exons in this mutant include codons for the ankyrin repeat and SH3 domain, required for interaction with p53 family members. Homozygotes exhibit embryonic lethality by embryonic day 6.5. Heterozygous mice are viable, fertile and exhibit increased incidence of spontaneous tumors as they age.  $\gamma$ -irradiated heterozygotes exhibit an increased incidence of high-grade thymic T cell lymphomas and attenuated apoptotic response in primary thymocytes.

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## + Development

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## + Control Suggestions

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## + Selected References

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## ⊖ Genetics

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## + *Trp53bp2*<sup>tm1Cdo</sup>

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## ⊖ Disease/Phenotype

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## + Disease Terms

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## + Research Areas By Phenotype

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## + Mammalian Phenotype Terms by Genotype

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## + References

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## ⊖ Technical Support

C O N T A C T   T E C H N I C A L   S U P P O R T

## Genotyping Protocols

Separated MCA: [Trp53bp2](#)

Separated PCR: [Trp53bp2](#)

Standard PCR: [Generic Neo](#)

Probe: [Generic Neo](#)

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred to wildtype mice from the colony or to BALB/cJ inbred mice (Stock No. [000651](#)). Homozygotes exhibit embryonic lethality by day E6.5.

[Additional Breeding and Husbandry Support](#)

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