


## C57BL/6J-*Tlr9*<sup>M7Btlr</sup>/Mmjax

MMRRC Stock No: **34329-JAX** | CpG11

 Chemically Induced Mutation, Coisogenic

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stimulation with oligodeoxynucleotides containing CpG motifs. This mutant mouse strain may be useful in studies of the role of toll like receptor 9 (TLR9) in the immune system.

### Donating Investigator

Bruce Beutler, University of Texas Southwestern Medical

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## GENETIC OVERVIEW

### Genetic Background

### Generation

?p+N2F6  
(2020-09-25 00:00:00)

*Tlr9*<sup>M7Btlr</sup>

### Alele Type

Chemically induced (ENU)

### Gene Symbol

*Tlr9*

### Gene Name

toll-like receptor 9

VIEW GENETICS

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

## Details

### Detailed Description

Homozygotes: Mice that are homozygous for this mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. In response to stimulation with oligodeoxynucleotides containing CpG motifs, macrophages do not produce tumor necrosis factor (TNF) alpha. This mutant mouse strain may be useful in studies of the role of toll like receptor 9 (TLR9) in the immune system.

For additional information, see The Scripps Research Institute [Mutagenix website](#).

Heterozygote: Macrophages from heterozygous mice produce a reduced level of TNF-alpha in response to CpG stimulation.

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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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### *Tlr9*<sup>M7Btlr</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

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## Genotyping Protocols

Sanger sequencing: [Tlr9-SEQ](#)

[Genotyping resources and troubleshooting](#)

## Dietary Information

LabDiet® 5K52 formulation (6% fat)

## Breeding Considerations

While maintaining a live colony, these mice are bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

## Mating System

Homozygote x Homozygote

## Citation

When using the CpG11 mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #34329 in your Materials and Methods section.

## Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [FGB29 \(Standard\)](#)

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## LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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