

129P3/J-Chr 1 ^{C57BL/6ByJ} /MonMmjax
MMRRC Stock No: 36684-JAX | 129P3/J-Chr 1

 Consomic

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This strain represents one of a panel of chromosome substitution (or consomic) strains. Each strain carries a chromosome from the C57BL/6ByJ strain introgressed into a 129P3/J background. These strains represent a tool for dissection of quantitative trait loci. In particular, these two strains exhibit differences in body composition, alcohol consumption and taste responsiveness.

Donating Investigator

Alexander Bachmanov, Monell Chemical Senses Center

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GENETIC OVERVIEW

Genetic Background

Generation

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Research Tools

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 Details

 Detailed Description

This strain represents one of a panel of chromosome substitution (or consomic) strains. Each strain carries a chromosome from the C57BL/6ByJ strain introgressed into a 129P3/J background. These strains represent a tool for dissection of quantitative trait loci (QTL). In particular, these two strains exhibit differences in taste response, ingestive behavior, alcohol consumption, body size, and adiposity. Genome scans of crosses between these strains have detected QTLs for these phenotypes that cluster on Chr 1, 2, 7 and 9 (*Adip2*; *Adip3*, *Adip5*, *Ap7q*, *Bwq5*, *Bwq6*, *Nattq1*, *Nattq2*, *Sucq*).

In 2013, a 154 SNP (single nucleotide polymorphism) panel analysis covering all 19 chromosomes and the X chromosome was performed at The Jackson Laboratory. All markers on Chr 1 are fixed for the C57BL/6 allele type. The remaining markers are fixed for 129P3/J with the exception of 2 markers on Chr 18 that tested as heterozygous for C57BL/6 and 129P3/J.

[+ Development](#)

[+ Control Suggestions](#)

[- Genetics](#)

Currently there are no related genes or alleles for this strain.

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

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[+ References](#)

[- 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
[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Citation

When using the 129P3/J-Chr 1 mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #36684 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](#)

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