

C57BL/6-Tg(LacZpl)60Vij/J

Stock No: **002754** | pUR288-C57BL/6 transgenic; LacZ

 **Transgenic**

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

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number of the lacZ-expressing transgene (~20 copies) and the large size of the transgenic construct (~5 kb). This model can be further used to identify specific mutation types, and in applications of genetic toxicology testing.

Donating Investigator

Dr. Jan Vijg, Univ of Texas Health Science Center

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(LacZpl)60Vij

Alele Type

Transgenic (Reporter)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Cancer Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

pUR288-C57BL/6 transgenic mice are useful in mutation rate quantitation in virtually any tissue. Homozygous transgenic mice carry approximately 20 concatenated copies of the 5 kb *lacZ*-expressing *pUR288* plasmid construct that also carries ampicillin resistance.

Mutagenesis of the individual *lacZ* components can be detected by a plasmid rescue process that involves a *HindIII* digestion to separate the individual *lacZ* plasmid copies, isolation of *lacZ* fragments with magnetic beads coupled to *lacI* repressor proteins, ligation of the isolated fragments into circular plasmids, and their electroporation into host-restriction-negative, galactose-sensitive *E. coli* C (*lacZ*⁻/*galE*⁻). Culture of *E. coli* bacteria harboring intact *lacZ* (encoding β -galactosidase, which converts lactose into galactose) forms no colonies on ampicillin/phenylgalactoside medium. *E. coli* carrying disrupted *lacZ* enable colony growth for subsequent genetic analysis. This model can be used to identify specific mutation types including small and large deletions, insertions, and point mutations, and in applications of genetic toxicology testing.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(LacZpl)60Vj

Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ 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

Homozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Appearance

black

Related Genotype: *a/a*

Citation

When using the pUR288-C57BL/6 transgenic; LacZ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002754 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](#)



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CRYORECOVERY - DOMESTIC NOT-FOR-PROFIT & ACADEMIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Homozygous for Tg(LacZpl)60Vij	\$2,854.50

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Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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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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[Use of MICE only available to non-profit entities.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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