

**C57BL/6N-*Pawr*<sup>tm1Rang</sup> /J**

Stock No: **015823**

 Coisogenic, Targeted Mutation

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

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## Donating Investigator

Vivek M Rangnekar, University of Kentucky

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## GENETIC OVERVIEW

Genetic Background

Generation

*Pawr*<sup>tm1Rang</sup>

### Alele Type

Targeted (Conditional ready  
(e.g. floxed), No functional  
change)

### Gene Symbol

*Pawr*

### Gene Name

PRKC, apoptosis, WT1, regulator

VIEW GENETICS

## RESEARCH APPLICATIONS

Cell Biology Research

Immunology, Inflammation and Autoimmunity Research

Research Tools

Apoptosis 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

Mice homozygous for this *Par4<sup>flox</sup>* allele are viable and fertile, with *loxP* sites flanking exon 2 of the targeted PRKC, apoptosis, WT1, regulator (*Pawr* or *Par-4*) gene. Homozygotes are viable, fertile, normal in size, and do not display any gross physical or behavioral abnormalities. PAR4 is a pro-apoptotic protein capable of inducing apoptosis in cancer cells and causing regression of tumors in animal models. PAR4 interacts with, and inhibit, atypical protein kinase C isoforms, functioning as a negative regulator of the NF-κB pathway. When these mutant mice are bred to mice that express Cre recombinase, the resulting offspring will have exon 2 deleted in the *cre*-expressing tissue, resulting in inactivation of *Pawr* gene function. Loss of PAR4 leads to a reduction in apoptosis by increased activation of NF-κB. These mutant mice may be useful in generating conditional mutations for studying tumor development and treatment.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Pawr<sup>tm1Rang</sup>*

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

+ Mammalian Phenotype Terms by Genotype

+ References

## - Technical Support

### CONTACT TECHNICAL SUPPORT

#### Genotyping Protocols

Standard PCR:[Pawr](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the C57BL/6N-*Pawr<sup>tm1Rang</sup>*/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #015823 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



Cryo  
Recovery

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

### Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

#### CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous for <i>Pawr&lt;tm1Rang&gt;</i>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

C57BL/6N-Pawr<tm1Rang>/J Frozen Embryo

\$2595.00

## PAYMENT TERMS AND CONDITIONS

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.

## 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.

### Terms Of Use

#### TERMS OF USE

[General Terms and Conditions](#)

Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

#### LICENSING INFORMATION

Phone: 207-288-6470

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

### Related Strains

All

By Allele

By Gene

By Collection



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