

**B6;129P2-Olfr545<sup>tm4Mom</sup>/MomJ**

Stock No: **006716** | venusYFP→ S50

 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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at the caudal margins of the olfactory bulb is observed.

### Donating Investigator

Peter Mombaerts, Max Planck Research Unit for Neurogenetics

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## GENETIC OVERVIEW

Genetic Background

Generation

*Olfr545<sup>tm4Mom</sup>*

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

*Olfr545*

olfactory receptor 545

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

Developmental Biology Research

Sensorineural 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

With the coding sequence of class I olfactory receptor *Olf545* excised and replaced with venusYFP, this strain allows assessment of the role of a specific olfactory receptor in olfactory sensory neuron development. Mice carrying this allele display a normal pattern of labeled axons projecting diffusely to a large subset of glomeruli in the dorsal-medial and anterior-medial olfactory bulb, but also an abnormal finding of labeled axons innervating glomeruli at the caudal margins of the olfactory bulb. Co-staining for five dorsal class I olfactory receptors shows 3.8% co-expressing class I olfactory receptor genes and the disrupted *Olf545<sup>tm4Mom</sup>* allele, while co-staining for five dorsal class II olfactory receptors shows no co-expression with the disrupted *Olf545<sup>tm4Mom</sup>* allele.

#### Development

#### Expression Data

#### Selected References

### Genetics

#### *Olf545<sup>tm4Mom</sup>*

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

- 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 PCR: [Olf545](#)

[Genotyping resources and troubleshooting](#)

Citation

When using the venusYFP→ S50 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006716 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 Olf545<tm4Mom>	\$2,854.50

RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6;129P2-Olf545<tm4Mom>/MomJ Frozen Embryo	\$2595.00
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## 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

#### ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

#### 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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