

**B6.129S2-Cd207<sup>tm2Mal</sup>/J**

Stock No: **016939** | Lang-EGFP

 Congenic, 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

Bernard Malissen, Centre d'immunologie de Marseille Luminy

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## GENETIC OVERVIEW

Genetic Background

Generation

*Cd207<sup>tm2Mal</sup>*

**Alele Type**

Targeted (Reporter)

**Gene Symbol**

*Cd207*

**Gene Name**

CD207 antigen

VIEW GENETICS

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research  
Research Tools

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

*Lang-EGFP* mutant mice contain an internal ribosome entry site (IRES) and an enhanced green fluorescent protein (EGFP) downstream of the internal stop codon of the CD207 antigen (*Cd207* or Langerin) gene. Homozygotes are viable, fertile, and normal in size. Langerin is a transmembrane receptor produced by specialized antigen-presenting cells located in the skin called Langerhans cells (LCs), and other dendritic cells including dermal DCs and splenic CD8<sup>+</sup> DCs. Langerin is specifically localized in the Birbeck granules, where it is necessary for their formation. In these mice, EGFP expression is evident in the cytosol of immature Langerin-derived DCs and CD8<sup>+</sup> DCs and is decreased upon LC maturation. These mice may be useful for visualizing Langerhans cells and monitoring their movement during inflammation.

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### *Cd207<sup>tm2Mal</sup>*

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

- 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:[Cd207](#)

[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 Lang-EGFP mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016939 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 Not-For-Profit & Academic Pricing

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for Cd207<tm2Mal>	\$2,854.50

Related Products and Services

<a href="#">Frozen Mouse Embryo</a>	B6.129S2-Cd207<tm2Mal>/J	\$2595.00
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Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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