

**B6.Cg-*Il17ra*<sup>tm2.1Koll</sup>/J**  
Stock No: **031000** | *Il17ra*<sup>n</sup>

 Congenic, Targeted Mutation

Live mice available in varying quantities. Ask Customer Service for details.

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## Donating Investigator

Jay Kolls, University of Pittsburgh School of Medicine

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## GENETIC OVERVIEW

### Genetic Background

### Generation

[N5+pN1F3](#)  
(2019-06-17 00:00:00)

*Il17ra*<sup>tm2.1Koll</sup>

### Alele Type

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

### Gene Symbol

*Il17ra*

### Gene Name

interleukin 17 receptor A

VIEW GENETICS

## RESEARCH APPLICATIONS

### Research Tools

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

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

### Details

#### Detailed Description

*Il17ra<sup>fl/fl</sup>* mice possess *loxP* sites flanking exons 2-3 of the interleukin 17 receptor A (*Il17ra*) gene. IL-17RA is a receptor for proinflammatory cytokine IL-17 which is secreted by activated T-lymphocytes. It forms a heterodimer with IL-17RC and plays a critical role in host defense against extracellular bacterial and fungal pathogens. Mice that are homozygous for this allele are viable and fertile. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exons 2-3 deleted in the *cre*-expressing tissues.

When bred to mice expressing Cre Recombinase in airway epithelium, resulting IL-17RA deficient mice display an impaired ability to recruit neutrophils into the airway lumen in response to IL-17, a defect in bacterial clearance upon mucosal challenge with the pulmonary pathogen *Klebsiella pneumoniae*, and substantially reduced epithelial expression of the chemokine *Cxcl5* (chemokine (C-X-C motif) ligand 5).

When bred to mice expressing Cre recombinase in gastrointestinal epithelium, mice have reduced secretory IgA in feces and have intestinal overgrowth of segmented filamentous bacteria.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Il17ra<sup>tm2.1Koll</sup>*

### 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

Standard PCR:[Il17ra](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

#### Mating System

Homozygote x Homozygote

#### Citation

When using the Il17ra<sup>fl</sup> mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #031000 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

## [- Pricing & Availability](#)



Live mice available in varying quantities. Ask Customer Service for details.

Available

## Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

### Live Mouse

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Il17ra <sup>tr2.1Koll</sup>	\$255.00
		<sup>tr2.1Koll</sup>	

	SEX	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
5 weeks	Female	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
	Male	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
6 weeks	Female	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
	Male	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
7 weeks	Female	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
	Male	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
8 weeks	Female	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
	Male	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
9 weeks	Female	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
	Male	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
10 weeks	Female	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
	Male	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
11 weeks	Female	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
	Male	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
12 weeks	Female	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00
	Male	Homozygous for Il17ra <sup>tm2.1Koll</sup>	\$255.00

## Related Products and Services

Frozen Mouse Embryo	B6.Cg-Il17ra <sup>tm2.1Koll</sup> /J	\$2595.00
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Phone: 207-288-6470

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

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