

# Resource Summary Report

Generated by [NIF](#) on Sep 1, 2026

## B6(129S4)-Il33<sup>tm1.1Bryc</sup>/J

RRID:IMSR\_JAX:030619

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:030619

### Organism Information

**URL:** <https://www.jax.org/strain/030619>

**Proper Citation:** RRID:IMSR\_JAX:030619

**Description:** Mus musculus with name B6(129S4)-Il33<sup>tm1.1Bryc</sup>/J from IMSR.

**Species:** Mus musculus

**Notes:** gene symbol note: interleukin 33|; mutant strain: Il33|

**Affected Gene:** interleukin 33|

**Genomic Alteration:** targeted mutation 1.1; Paul Bryce

**Catalog Number:** JAX:030619

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** live

**Organism Name:** B6(129S4)-Il33<sup>tm1.1Bryc</sup>/J

**Record Creation Time:** 20250513T053816+0000

**Record Last Update:** 20260829T045121+0000

### Ratings and Alerts

No rating or validation information has been found for B6(129S4)-Il33<sup>tm1.1Bryc</sup>/J.

No alerts have been found for B6(129S4)-Il33<sup>tm1.1Bryc</sup>/J.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 10 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [NIF](#) .

Chen Z, et al. (2026) Fibroblast-derived alarmin promotes oral wound healing by activating regulatory T cells that relay pro-angiogenic and anti-inflammatory responses. *Cell reports*, 45(1), 116829.

Jean EE, et al. (2025) Myeloid-derived IL-33 drives ?? T cell-dependent resistance against cutaneous infection by *Strongyloides ratti*. *Journal of immunology* (Baltimore, Md. : 1950), 214(3), 502.

Atakkatan A, et al. (2025) Complement-producing adventitial fibroblasts form an IL-33 alarmin hub that maintains ILC2s during airway allergy. *Cell reports*, 44(12), 116641.

Lamorte S, et al. (2025) Lymph node macrophages drive immune tolerance and resistance to cancer therapy by induction of the immune-regulatory cytokine IL-33. *Cancer cell*, 43(5), 955.

Kaur G, et al. (2025) NADPH oxidase 1-PKC?-dependent ZO-1 phosphorylation mediates IL-33-induced inner blood-retinal barrier disruption in proliferative retinopathies. *American journal of physiology. Cell physiology*, 329(5), C1577.

Mattar P, et al. (2024) Insulin and leptin oscillations license food-entrained browning and metabolic flexibility. *Cell reports*, 43(7), 114390.

Sacks D, et al. (2023) Dermis resident macrophages orchestrate localized ILC2-eosinophil circuitries to maintain their M2-like properties and promote non-healing cutaneous leishmaniasis. *Research square*.

Burganova G, et al. (2023) Pericytes modulate islet immune cells and insulin secretion through Interleukin-33 production in mice. *Frontiers in endocrinology*, 14, 1142988.

Yang X, et al. (2022) Very-low-density lipoprotein receptor-enhanced lipid metabolism in pancreatic stellate cells promotes pancreatic fibrosis. *Immunity*, 55(7), 1185.

Clark JT, et al. (2021) IL-33 promotes innate lymphoid cell-dependent IFN-? production required for innate immunity to *Toxoplasma gondii*. *eLife*, 10.