

Resource Summary Report

Generated by [Kravitz](#) on Sep 19, 2026

B6(129S4)-Il33^{tm1.1Bryc}/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^{tm1.1Bryc}/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^{tm1.1Bryc}/J

Record Creation Time: 20250513T053816+0000

Record Last Update: 20260919T055000+0000

Ratings and Alerts

No rating or validation information has been found for B6(129S4)-Il33^{tm1.1Bryc}/J.

No alerts have been found for B6(129S4)-Il33^{tm1.1Bryc}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

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.