Resource Summary Report

Generated by PRECISE-TBI on Jul 30, 2026

B6.Cg-Padi4$^{tm1.1Kmow}$/J

RRID:IMSR_JAX:030315
Type: Organism

Proper Citation

RRID:IMSR_JAX:030315

Organism Information

URL: https://www.jax.org/strain/030315

Proper Citation: RRID:IMSR_JAX:030315

Description: Mus musculus with name B6.Cg-Padi4$^{tm1.1Kmow}$/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: peptidyl arginine deiminase; type IV; mutant strain|congenic strain: Padi4

Affected Gene: peptidyl arginine deiminase; type IV

Genomic Alteration: targeted mutation 1.1; Kerri A Mowen

Catalog Number: JAX:030315

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Padi4$^{tm1.1Kmow}$/J

Record Creation Time: 20250513T053814+0000

Record Last Update: 20260725T044518+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Padi4$^{tm1.1Kmow}$/J.

No alerts have been found for B6.Cg-Padi4$^{tm1.1Kmow}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 14 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Wise AD, et al. (2025) Mitochondria sense bacterial lactate and drive release of neutrophil extracellular traps. Cell host & microbe, 33(3), 341.

Larsen RK, et al. (2025) Non-cell-autonomous tumor promotion in DICER1 cancer predisposition. Developmental cell.

Indeglia A, et al. (2025) Targeted citrullination enables p53 binding to non-canonical sites. Molecular cell, 85(19), 3588.

Kline SN, et al. (2025) Epicutaneous Staphylococcus aureus initiates cross-tissue IL-36R signaling for neutrophilic lung inflammation in a model of the atopic march. Cell reports, 44(8), 116054.

Huang J, et al. (2024) Granulocyte colony stimulating factor promotes scarless tissue regeneration. Cell reports, 43(10), 114742.

Van Roy Z, et al. (2024) Tumor necrosis factor regulates leukocyte recruitment but not bacterial persistence during Staphylococcus aureus craniotomy infection. Journal of neuroinflammation, 21(1), 179.

Chowdhury CS, et al. (2024) Type I IFN-mediated NET release promotes Mycobacterium tuberculosis replication and is associated with granuloma caseation. Cell host & microbe, 32(12), 2092.

Kim TS, et al. (2023) Neutrophil extracellular traps and extracellular histones potentiate IL-17 inflammation in periodontitis. The Journal of experimental medicine, 220(9).

Elrod J, et al. (2023) Neutrophil extracellular traps and DNases orchestrate formation of peritoneal adhesions. iScience, 26(12), 108289.

Deng H, et al. (2022) A Novel Selective Inhibitor JBI-589 Targets PAD4-Mediated Neutrophil Migration to Suppress Tumor Progression. Cancer research, 82(19), 3561.

Oh C, et al. (2022) Neutrophil inflammasomes sense the subcellular delivery route of translocated bacterial effectors and toxins. Cell reports, 41(8), 111688.

Monteith AJ, et al. (2021) Neutrophil extracellular traps enhance macrophage killing of bacterial pathogens. Science advances, 7(37), eabj2101.

Surolia R, et al. (2021) NETosis in the pathogenesis of acute lung injury following cutaneous chemical burns. JCI insight, 6(10).

Dou H, et al. (2021) Oxidized Phospholipids Promote NETosis and Arterial Thrombosis in LNK(SH2B3) Deficiency. Circulation, 144(24), 1940.