

Resource Summary Report

Generated by [ASWG](#) on Sep 21, 2026

C3SnSmn.Cg-Prkdc^{scid}/J

RRID:IMSR_JAX:001131

Type: Organism

Proper Citation

RRID:IMSR_JAX:001131

Organism Information

URL: <https://www.jax.org/strain/001131>

Proper Citation: RRID:IMSR_JAX:001131

Description: Mus musculus with name C3SnSmn.Cg-Prkdc^{scid}/J from IMSR.

Species: Mus musculus

Synonyms: C3H scid. C3SnSmn.CB17-Prkdc/J. C3Smn.CB17-Prkdc/J

Notes: gene symbol note: protein kinase; DNA activated; catalytic polypeptide|chloride channel CLIC-like 1; mutant strain|congenic strain: Prkdc|Clcc1

Affected Gene: protein kinase; DNA activated; catalytic polypeptide|chloride channel CLIC-like 1

Genomic Alteration: severe combined immunodeficiency|mutation 1; Jackson

Catalog Number: JAX:001131

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C3SnSmn.Cg-Prkdc^{scid}/J

Record Creation Time: 20250513T053624+0000

Record Last Update: 20260919T054812+0000

Ratings and Alerts

No rating or validation information has been found for C3SnSmn.Cg-Prkdc^{scid}/J.

No alerts have been found for C3SnSmn.Cg-Prkdc^{scid}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Rocha SC, et al. (2025) Long-term survival of Babesia microti and Borrelia burgdorferi in C3H/HeJ mice and their effect on Lyme arthritis and babesiosis manifestations. Microbiology spectrum, 13(9), e0025225.

Velatooru LR, et al. (2025) Vaccination-induced neutralizing antibodies in immunocompetent hosts correlate with protection against rickettsiae. NPJ vaccines, 10(1), 180.

Dai Z, et al. (2025) Single-cell analysis of temporal immune cell dynamics in alopecia areata reveals a causal role for clonally expanded CD8+ T cells in disease. Cell reports, 44(7), 115798.

Raghunandanan S, et al. (2024) MCP5, a methyl-accepting chemotaxis protein regulated by both the Hk1-Rrp1 and Rrp2-RpoN-RpoS pathways, is required for the immune evasion of Borrelia burgdorferi. bioRxiv : the preprint server for biology.

Raghunandanan S, et al. (2024) MCP5, a methyl-accepting chemotaxis protein regulated by both the Hk1-Rrp1 and Rrp2-RpoN-RpoS pathways, is required for the immune evasion of Borrelia burgdorferi. PLoS pathogens, 20(12), e1012327.

Chen GY, et al. (2023) Cooperation between physiological defenses and immune resistance produces asymptomatic carriage of a lethal bacterial pathogen. bioRxiv : the preprint server for biology.

Chen GY, et al. (2023) Cooperation between physiological defenses and immune resistance produces asymptomatic carriage of a lethal bacterial pathogen. Science advances, 9(25), eadg8719.

Stewart PE, et al. (2022) Kinetics of tick infection by the relapsing fever spirochete Borrelia hermsii acquired through artificial membrane feeding chambers. Scientific reports, 12(1), 13479.

Lone AG, et al. (2020) The Borrelia burgdorferi VlsE Lipoprotein Prevents Antibody Binding to an Arthritis-Related Surface Antigen. Cell reports, 30(11), 3663.

Raffel SJ, et al. (2014) Inactivation of genes for antigenic variation in the relapsing fever spirochete *Borrelia hermsii* reduces infectivity in mice and transmission by ticks. PLoS pathogens, 10(4), e1004056.

Rogovskyy AS, et al. (2013) Variable VlsE is critical for host reinfection by the Lyme disease spirochete. PloS one, 8(4), e61226.

Rivera-Nieves J, et al. (2006) Critical role of endothelial P-selectin glycoprotein ligand 1 in chronic murine ileitis. The Journal of experimental medicine, 203(4), 907.