

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

[B6.129S-Cybb^{tm1Din/J}](#)

RRID:IMSR_JAX:002365

Type: Organism

Proper Citation

RRID:IMSR_JAX:002365

Organism Information

URL: <https://www.jax.org/strain/002365>

Proper Citation: RRID:IMSR_JAX:002365

Description: Mus musculus with name B6.129S-Cybb^{tm1Din/J} from IMSR.

Species: Mus musculus

Synonyms: B6.129S6-Cybb/J

Notes: gene symbol note: cytochrome b-245; beta polypeptide; mutant strain|congenic strain: Cybb

Affected Gene: cytochrome b-245; beta polypeptide

Genomic Alteration: targeted mutation 1; Mary C Dinauer

Catalog Number: JAX:002365

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S-Cybb^{tm1Din/J}

Record Creation Time: 20250513T053631+0000

Record Last Update: 20260725T044339+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S-Cybb^{tm1Din/J}.

No alerts have been found for B6.129S-Cybb^{tm1Din}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 106 mentions in open access literature.

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

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.

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

Acosta IC, et al. (2025) Staphylococcus aureus exploits lipoic acid salvage to combat host oxidative stress. Cell reports, 44(8), 116095.

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.

Haist KC, et al. (2024) A LTB4/CD11b self-amplifying loop drives pyogranuloma formation in chronic granulomatous disease. iScience, 27(4), 109589.

Khayrullina G, et al. (2023) Differential effects of NOX2 and NOX4 inhibition after rodent spinal cord injury. PloS one, 18(3), e0281045.

Lim JY, et al. (2023) Survival Factor A (SvfA) Contributes to Aspergillus nidulans Pathogenicity. Journal of fungi (Basel, Switzerland), 9(2).

Hinman KD, et al. (2023) Bi-fluorescent Staphylococcus aureus infection enables single-cell analysis of intracellular killing in vivo. Frontiers in immunology, 14, 1089111.

Youwakim J, et al. (2023) Neurovascular Coupling in Hypertension Is Impaired by IL-17A through Oxidative Stress. International journal of molecular sciences, 24(4).

Wojtowicz EE, et al. (2023) Panhematopoietic RNA barcoding enables kinetic measurements of nucleate and anucleate lineages and the activation of myeloid clones following acute platelet depletion. Genome biology, 24(1), 152.

Chen HC, et al. (2023) Deletion of NADPH oxidase 2 attenuates cisplatin-induced acute kidney injury through reducing ROS-induced proximal tubular cell injury and inflammation. Frontiers in medicine, 10, 1097671.

Drummond SE, et al. (2023) Chronic Intermittent Hypoxia-Induced Diaphragm Muscle Weakness Is NADPH Oxidase-2 Dependent. *Cells*, 12(14).

Van Roy Z, et al. (2023) Epigenetic Regulation of Leukocyte Inflammatory Mediator Production Dictates *Staphylococcus aureus* Craniotomy Infection Outcome. *Journal of immunology* (Baltimore, Md. : 1950), 211(3), 414.

Petzold T, et al. (2022) Neutrophil "plucking" on megakaryocytes drives platelet production and boosts cardiovascular disease. *Immunity*, 55(12), 2285.

Dragotakes Q, et al. (2022) Bet-hedging antimicrobial strategies in macrophage phagosome acidification drive the dynamics of *Cryptococcus neoformans* intracellular escape mechanisms. *PLoS pathogens*, 18(7), e1010697.

Barioni NO, et al. (2022) Novel oxygen sensing mechanism in the spinal cord involved in cardiorespiratory responses to hypoxia. *Science advances*, 8(12), eabm1444.

Gros M, et al. (2022) Endocytic membrane repair by ESCRT-III controls antigen export to the cytosol during antigen cross-presentation. *Cell reports*, 40(7), 111205.

Chen X, et al. (2022) Dexmedetomidine Attenuates Apoptosis and Neurological Deficits by Modulating Neuronal NADPH Oxidase 2-Derived Oxidative Stress in Neonates Following Hypoxic Brain Injury. *Antioxidants* (Basel, Switzerland), 11(11).

Di Pietro P, et al. (2022) Targeting the ASMase/S1P pathway protects from sortilin-evoked vascular damage in hypertension. *The Journal of clinical investigation*, 132(3).

Costanzo-Garvey DL, et al. (2022) Prostate cancer addiction to oxidative stress defines sensitivity to anti-tumor neutrophils. *Clinical & experimental metastasis*, 39(4), 641.