

Resource Summary Report

Generated by [dkNET](#) on Aug 3, 2026

B6.Cg-Tg(K18-ACE2)2PrImn/J

RRID:IMSR_JAX:034860

Type: Organism

Proper Citation

RRID:IMSR_JAX:034860

Organism Information

URL: <https://www.jax.org/strain/034860>

Proper Citation: RRID:IMSR_JAX:034860

Description: Mus musculus with name B6.Cg-Tg(K18-ACE2)2PrImn/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 2; Stanley Perlman; mutant strain|congenic strain: Tg(K18-ACE2)2PrImn

Affected Gene: transgene insertion 2; Stanley Perlman

Genomic Alteration: transgene insertion 2; Stanley Perlman

Catalog Number: JAX:034860

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(K18-ACE2)2PrImn/J

Record Creation Time: 20250513T053846+0000

Record Last Update: 20260801T050556+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(K18-ACE2)2PrImn/J.

No alerts have been found for B6.Cg-Tg(K18-ACE2)2PrImn/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 168 mentions in open access literature.

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

Rao Y, et al. (2025) Targeting CTP synthetase 1 to restore interferon induction and impede nucleotide synthesis in SARS-CoV-2 infection. mBio, 16(6), e0064925.

Hirsch AH, et al. (2025) Heterologous prime-pull mucosal vaccination with an adjuvanted RBD vaccine elicits robust IgA production and protects against SARS-CoV-2. Frontiers in immunology, 16, 1673460.

Kong W, et al. (2025) Neuroendocrine cells orchestrate regeneration through Desert hedgehog signaling. Cell, 188(18), 5020.

Liu H, et al. (2025) Severe Acute Respiratory Syndrome Coronavirus 2 Variant Infection Dynamics and Pathogenesis in Transgenic K18-hACE2 and Inbred Immunocompetent C57BL/6J Mice. Viruses, 17(4).

Olmedillas E, et al. (2025) Structure of a SARS-CoV-2 spike S2 subunit in a pre-fusion, open conformation. Cell reports, 44(8), 116052.

Slamanig S, et al. (2025) A single immunization with intranasal Newcastle disease virus (NDV)-based XBB.1.5 variant vaccine reduces disease and transmission in animals against matched-variant challenge. Vaccine, 45, 126586.

Schendel SL, et al. (2025) A global collaboration for systematic analysis of broad-ranging antibodies against the SARS-CoV-2 spike protein. Cell reports, 44(4), 115499.

Lear TB, et al. (2025) Inhibition of virally induced TFEB proteasomal degradation as a host-centric therapeutic approach for coronaviral infection. Science advances, 11(23), eadv4033.

Gerzanich V, et al. (2025) COVID-19-associated neuroinflammation and astrocyte death in the brain linked to ORF3a-induced activation of Sur1-mediated ion channels. mBio, 16(9), e0201225.

Rao VN, et al. (2025) Clonotype-enriched somatic hypermutations drive affinity maturation of a public human antibody targeting an occluded sarbecovirus epitope. Cell reports, 44(8), 116122.

Almubarak HF, et al. (2025) Integrated antibody language model accelerates IgG screening and design for broad-spectrum antiviral therapy. iScience, 28(10), 113584.

Monu M, et al. (2024) SARS-CoV-2 infects cells lining the blood-retinal barrier and induces a hyperinflammatory immune response in the retina via systemic exposure. *PLoS pathogens*, 20(4), e1012156.

Rong Z, et al. (2024) Persistence of spike protein at the skull-meninges-brain axis may contribute to the neurological sequelae of COVID-19. *Cell host & microbe*, 32(12), 2112.

Fernández JJ, et al. (2024) The IRE1 β -XBP1 arm of the unfolded protein response is a host factor activated in SARS-CoV-2 infection. *Biochimica et biophysica acta. Molecular basis of disease*, 1870(5), 167193.

Martinez DR, et al. (2024) The oral nucleoside prodrug GS-5245 is efficacious against SARS-CoV-2 and other endemic, epidemic, and enzootic coronaviruses. *Science translational medicine*, 16(748), eadj4504.

Liu H, et al. (2024) Establishment and characterization of an hACE2/hTMPRSS2 knock-in mouse model to study SARS-CoV-2. *Frontiers in immunology*, 15, 1428711.

Kwon DI, et al. (2024) Fc-fused IL-7 provides broad antiviral effects against respiratory virus infections through IL-17A-producing pulmonary innate-like T cells. *Cell reports. Medicine*, 5(1), 101362.

Sadhu S, et al. (2024) Berbamine prevents SARS-CoV-2 entry and transmission. *iScience*, 27(12), 111347.

Escoubas CC, et al. (2024) Type-I-interferon-responsive microglia shape cortical development and behavior. *Cell*.

Case JB, et al. (2024) A trivalent mucosal vaccine encoding phylogenetically inferred ancestral RBD sequences confers pan-Sarbecovirus protection in mice. *Cell host & microbe*, 32(12), 2131.