

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

Stock No: 034860 | K18-hACE2

 Congenic, Transgenic

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Also Known As:K18-hACE2

K18-hACE2 transgenic mice express human ACE2, the receptor used by the severe acute respiratory syndrome coronavirus (SARS-CoV) to gain entry to cells. The human keratin 18 (*KRT18*) promoter directs expression to epithelia, including airway epithelial cells where infections typically begin. This model of lethal infection with SARS-CoV mimics the human SARS disease. Recent research indicates this line may be useful in studying antiviral therapies for the 2019 novel coronavirus (SARS-CoV-2) pathogenesis and the disease outbreak COVID-19.

Please note, these mice should be handled in a manner consistent with [CDC/ABSA/WHO](#) guidelines for prevention of human infection with the SARS-CoV-2 virus. Proper PPE and handling methods should be used at all times when working with these mice. [Additional important guidelines for using SARS-CoV-2 susceptible mouse lines.](#)

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To learn more about this mouse and other infectious disease models from The Jackson Laboratory please contact micetech@jax.org - 1.800.422.6423 (US) - 1.207.288.5845 (International).

Donating Investigator

Dr. Stanley Perlman, University of Iowa

Dr. Paul B McCray, University of Iowa

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GENETIC OVERVIEW

Genetic Background

Generation

N2p+N1
(2020-03-27 00:00:00)

Tg(K18-ACE2)2PrImn

Alele Type

Transgenic (Inserted expressed sequence)

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