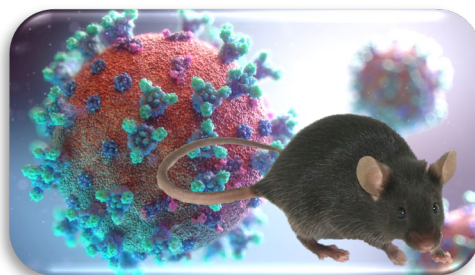


# K18-hACE2



## Features

**Nomenclature:** B6.Cg-Tg(K18-ACE2)2PrImn/JArc**Common Name:** K18-hACE2**Coat Colour:** Black**Health Report:** available on the ARC website.**Product Code:** ACE2**Jax™ Stock No.:** 034860**Strain Description:** Transgenic

## About

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 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 of COVID-19.

Publications on PubMed using the K18-hACE2 mouse model include research into COVID-19 treatments and pathogenesis including anosmia ([PubMed:33166988](https://pubmed.ncbi.nlm.nih.gov/33166988/)), the lethality of SARS-CoV-2 infection ([PubMed:33257679](https://pubmed.ncbi.nlm.nih.gov/33257679/)), and drug discovery and therapeutic options for Coronaviruses ([PubMed:26868298](https://pubmed.ncbi.nlm.nih.gov/26868298/)).

## Support

Phenomics Australia has generously supported the establishment and maintenance of this colony since 2019 to enable critical COVID-19 research to be undertaken in Australia. Phenomics Australia is supported by the Australian Government through the National Collaborative Research Infrastructure Strategy (NCRIS) program.

Please acknowledge Phenomics Australia and NCRIS on all printed and on-line material associated with publications, presentations and posters, and any funded activity.





### Conditions of Use & Disclaimer

Please note, these mice should be handled in a manner consistent with the Centre for Disease Control (CDC)/American Biological Safety Association (ABSA)/World Health Organization (WHO) guidelines for prevention of human infection with the SARS-CoV-2 virus. Proper PPE should be worn at all times.

These mice are sold subject to The Jackson Laboratory's Conditions of Use and also the Australian Patent Number (2004268530). See the Jackson Laboratory's website for more strain information. Conditions of use information is available at <http://jaxmice.jax.org/cou/index.html>.

When using the K18-hACE2 mouse strain in any publication, please cite the originating article(s) and include the JAX™ stock number (#034860) in your Materials and Methods section.

### Useful Links

Animal Resources Centre: [www.arc.wa.gov.au](http://www.arc.wa.gov.au)

Jackson Laboratories: [www.jax.org](http://www.jax.org)

Phenomics Australia: [www.phenomicsaustralia.org.au](http://www.phenomicsaustralia.org.au)

The strain information presented in this information sheet is derived from published information. The Animal Resources Authority accepts no responsibility for the authenticity of the published information.

For further information on the above or any other process associated with the maintenance of your strain(s), please contact our ARC technicians directly.



Please note this is a guide only. All current information should be taken from our website.

