



## Pde4b knockout rat

Model	Pde4b knockout rat
Strain	HsdSage:SD- Pde4b <sup>tm1Sage</sup> SD
Location	U.S.
Availability	Cryopreserved

### Zygoty genotype

- + Cryopreserved as heterozygous embryos

### Research use

- + Schizophrenia
- + Bipolar disorder
- + Neuronal growth and transport studies

### Origin

The Pde4b knockout rat model was originally created at SAGE Labs, Inc. in St. Louis, MO and distributed out of the Boyertown, PA facility. The line continues to be maintained through the original SAGE Labs animal inventory acquired by Envigo.

### Description

This model is a biallelic deletion of the Pde4b gene that regulates and mediates cellular responses to stimuli such as hormones and neurotransmitters. This model will be useful in the study of schizophrenia and bipolar disorder.

### Citations:

Balasubramaniam, Ambikaipakan; Sheriff, Sulaiman; Friend, Lou Ann; James, J Howard; Phosphodiesterase 4B knockout prevents skeletal muscle atrophy in rats with burn injury. American journal of physiology. Regulatory, integrative and comparative physiology Vol.315, 2018

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