



## CamKIIa-Cre knockin rat

Model	CamKIIa-Cre knockin rat
Strain	HsdSage:LE-CAMKIIA <sup>tm1(IRES-Cre)</sup> Sage
Location	U.S.
Availability	Live colony

### Characteristics/husbandry

- + Cre recombinase driven by endogenous CamKIIa promoter
- + No observed ectopic expression of cre
- + Targeted insertion eliminates possible gene disruption that may occur in random insertion technologies such as BAC
- + Background strain: Long Evans Hooded

### Zygoty genotype

- + Homozygous

### Research use

- + Optogenetics
- + Expression-knockout of floxed genes

### Origin

The CamKIIa-Cre KI 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 expresses cre-recombinase under the control of the endogenous camkIIa promoter enabling specific expression in excitatory neurons. This model possesses a targeted insertion of (IRES)-cre immediately after the translational stop in the open reading frame of CamkIIa. The CamkIIa-Cre rat is useful for applications requiring tissue specific expression, including optogenetics and breeding with transgenic floxed lines.

## Contact us

North America 800.793.7287 [gemsorders@envigo.com](mailto:gemsorders@envigo.com)  
Envigo, 8520 Allison Pointe Blvd., Suite 400, Indianapolis, IN 46250, United States