



Sst-Cre knockin rat

Model	Sst-Cre knockin rat
Strain	HsdSage: LE-SSt.Cre ^{tm1Sage}
Location	U.S.
Availability	Live colony

Characteristics/husbandry

- + Specific expression of floxed constructs in somatostatin-expressing neurons
- + Cre recombinase driven by endogenous Somatostatin 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 Sst-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 somatostatin promoter enabling specific expression in somatostatin neurons. This model possesses a targeted insertion of (IRES)-cre immediately after the translational stop in the open reading frame of Sst. The Sst-Cre rat is useful for applications requiring tissue specific expression, including optogenetics and breeding with transgenic floxed lines.

Contact us

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