

# R26-CAG-LSL-Luc-tdTomato

系統名	C57BL/6Smoc- <i>Gt(ROSA)26Sor</i> <sup>em1(CAG-LSL-luci-2A-tdTomato)Smoc</sup>
SMOC番号	NM-KI-18051
維持形態	Repository Live

## 遺伝子の概要

Gene Symbol <b>Gt(ROSA)26Sor</b>	Synonyms	R26, ROSA26, AV258896, Gtrg eo26, Gtrosa26, Thumpd3as1
	NCBI ID	<a href="#">14910</a>
	MGI ID	<a href="#">104735</a>
	Ensembl ID	<a href="#">ENSMUSG00000086429</a>

## 説明

A CAG-loxP STOP-loxP-luci-2A-tdTomato-WPRE-polyA cassette was knocked into the mouse ROSA26 locus . This strain of mice can be mated with mice expressing Cre recombinase so that luciferase and tdTomato fluorescent protein could be expressed for cell tracing.

**応用分野:** Cell tracing

\*Literature published using this strain should indicate: R26-CAG-LSL-Luc-tdTomato mice (Cat. NO. NM-KI-18051) were purchased from Shanghai Model Organisms Center, Inc..

## 表現型データ

R26-CAG-LSL-luci-tdTomato  
Dppa3-Cre

+ + + -  
- + - -

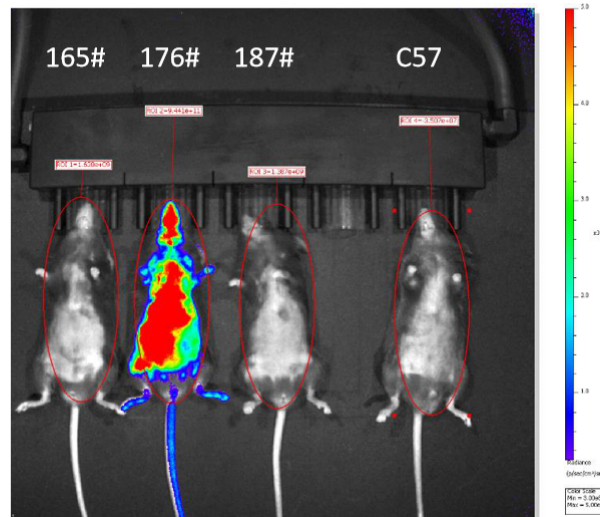


Fig1. In the absence of any stimulation, the in vivo imaging system detected that R26-CAG-LSL-luci-tdTomato(+/-); Dppa3-Cre (+/-) mice showed significant fluorescence.

R26-CAG-LSL-luci-tdTomato  
Dppa3-Cre

+ + -  
- - -

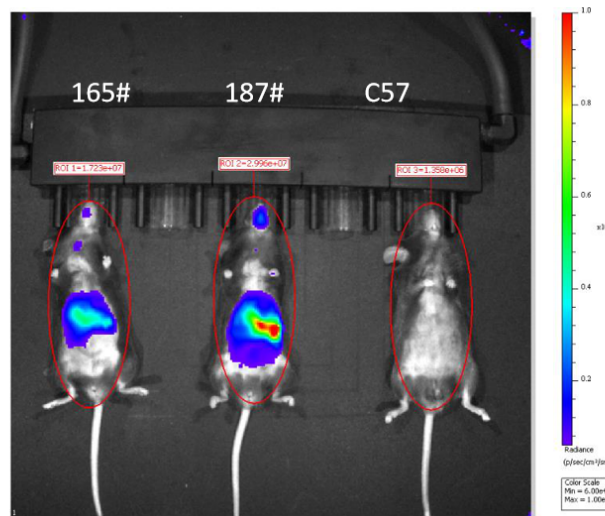


Fig2. The in vivo imaging system detected that R26-CAG-LSL-luci-tdTomato(+/-) mice showed some fluorescence. Some 'leaking' was found where luciferase were being expressed at a low level even without Cre.

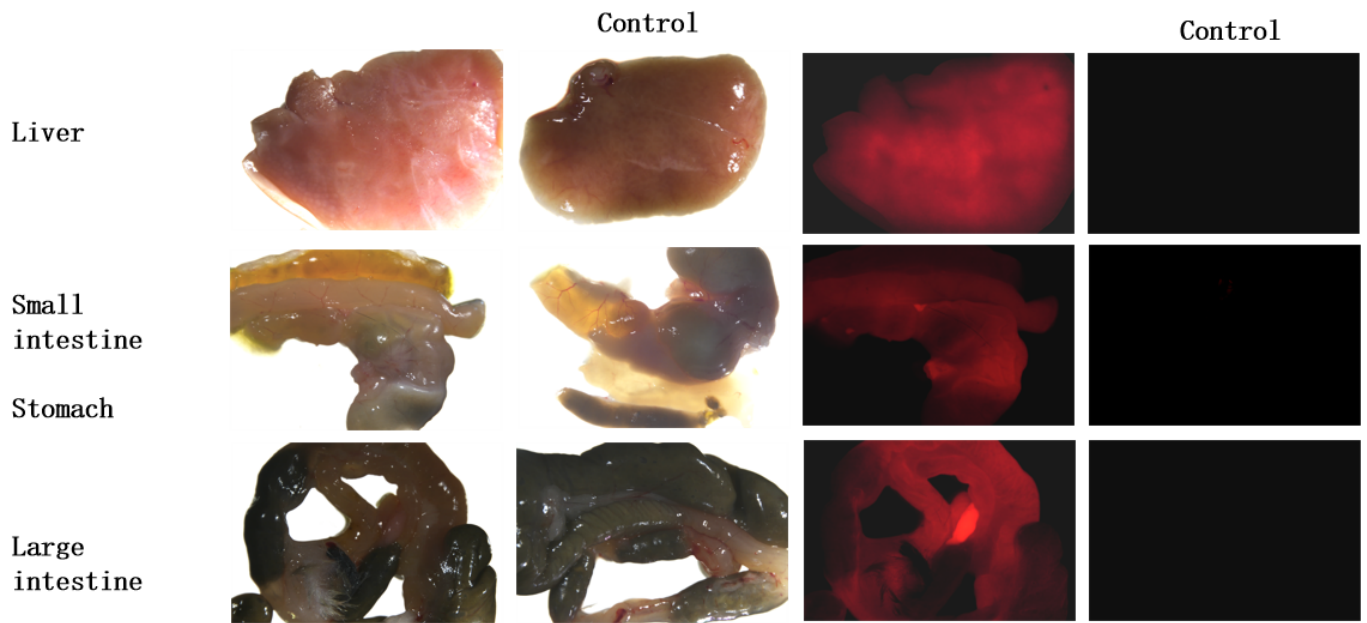


Fig. 3 Detection of tdTomato(red) in the liver, stomach, small intestine and large intestine of  $Dppa3^{Cre/+}; Rosa26^{Luc-tdTomato/+}$  mice.



Fig. 4 Detection of tdTomato(red) in various tissues of  $Dppa3^{Cre/+}; Rosa26^{Luc-tdTomato/+}$  mice. Tdtomato was expressed in the brain, eye, heart, spleen, kidney, pancreas, thymus, salivary glands, lung, skin, spinal cord, testis and epididymis. (For more detailed information please contact our technical advisor.)

