

# Gpr65-IRES-Cre

<b>Nomenclature</b>	C57BL/6Smoc- <i>Gpr65</i> <sup>em1(IRES-iCre)Smoc</sup>
<b>Cat. NO.</b>	NM-KI-200135
<b>Strain State</b>	Embryo cryopreservation

## Gene Summary

<b>Gene Symbol</b>	<b>Synonyms</b>	Dig1, TDAG8, Gpcr25
	<b>NCBI ID</b>	<a href="#">14744</a>
	<b>MGI ID</b>	<a href="#">108031</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000021886</a>
	<b>Human Ortholog</b>	GPR65

## Model Description

A IRES-iCre expression cassette was knocked into the Gpr65 gene stop codon site.

**Research Application:** Cre recombinase tool; The G-protein-coupled receptor(GPR65) neurons innervate intestinal villi and gastric mucosa to sense nutrients. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing cre.

\*Literature published using this strain should indicate: Gpr65-IRES-Cre mice (Cat. NO. NM-KI-200135) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

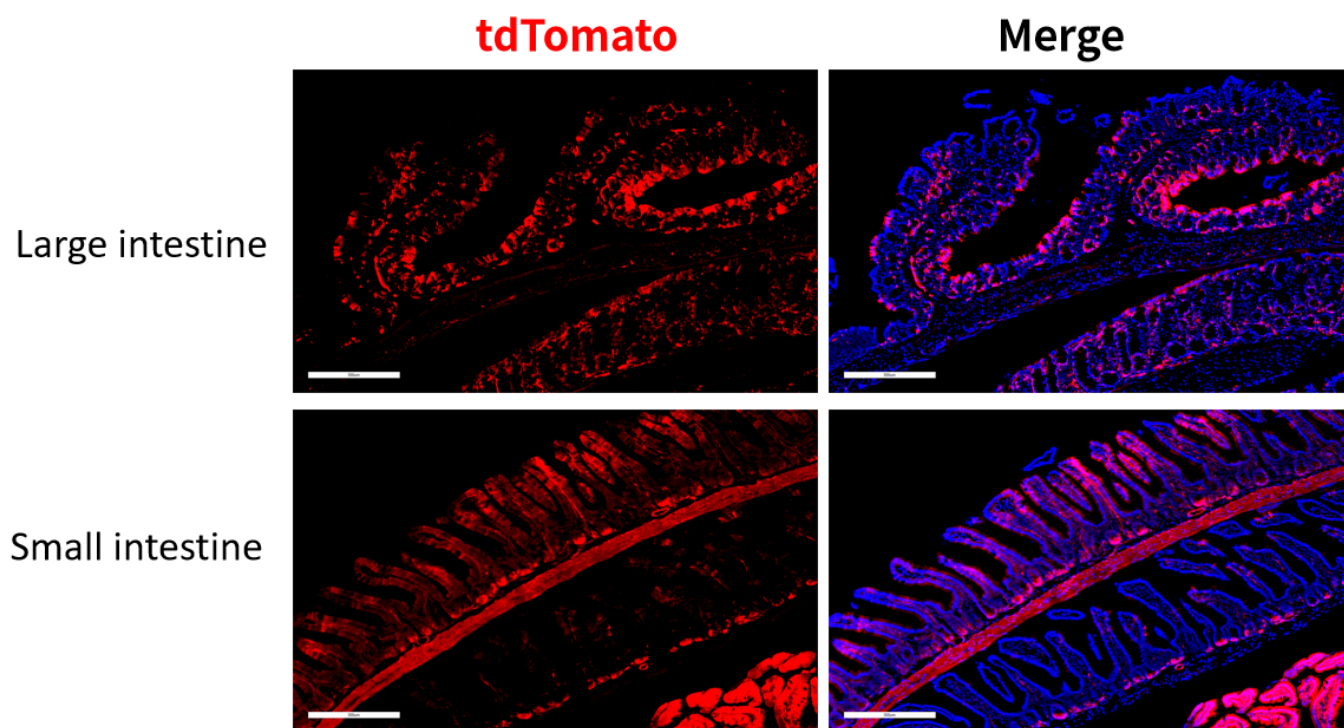


Fig. 1 Cre-mediated recombination in the intestine of  $Gpr65^{Cre/+}; Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the large intestine and small intestine derived from  $Gpr65^{Cre/+}; Rosa26^{tdTomato/+}$  mouse.

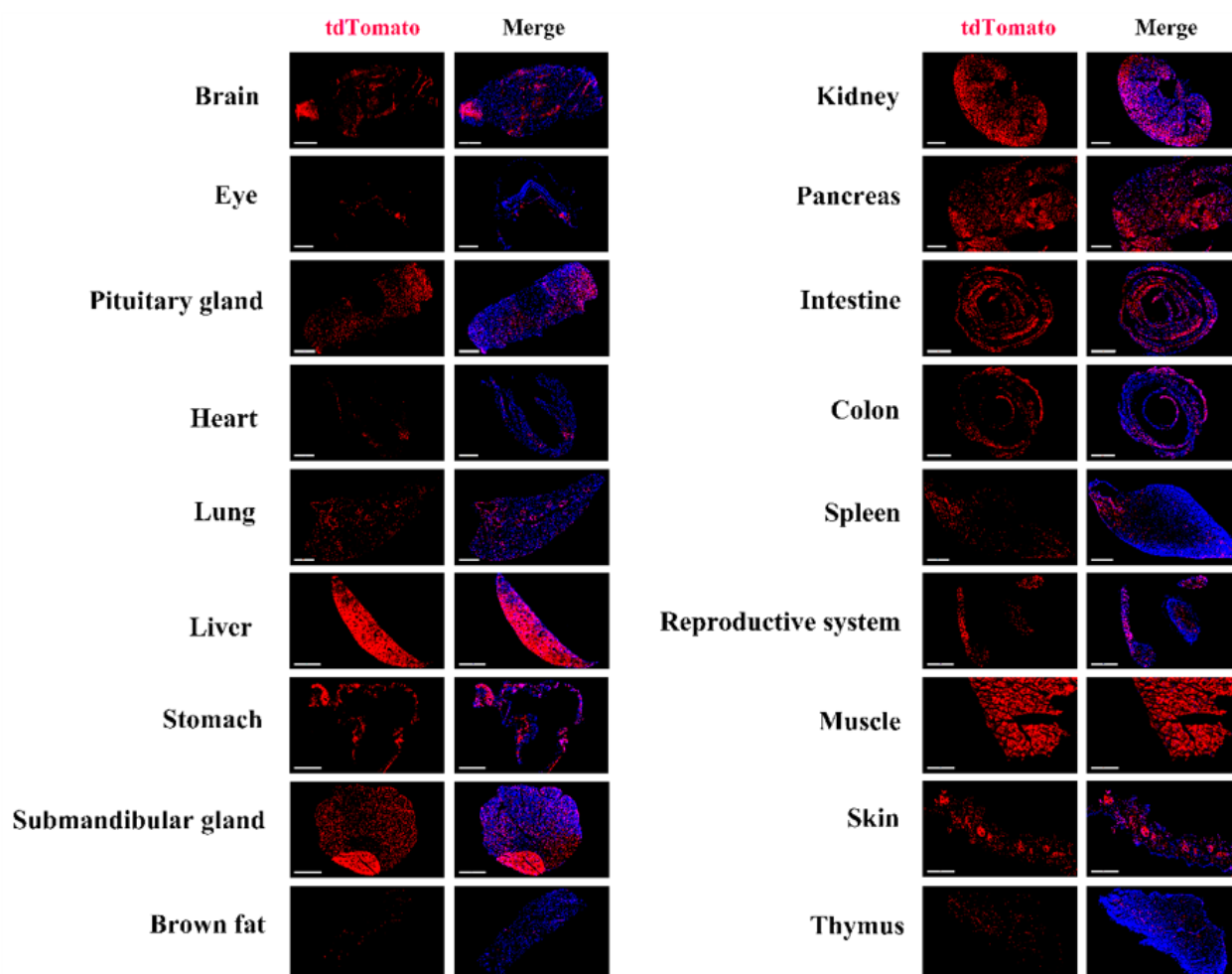


Fig. 2 Detection of tdTomato(red) in various tissues of  $Gpr65^{Cre/+}$ ;  $Rosa26^{tdTomato/+}$  mice. Cre mediated recombination can be detected in the pituitary gland, heart, liver, lung, stomach, salivary gland, kidney, pancreas, large intestine, skin, testis and epididymis. TdTomato can also be detected in individual cells of the thymus and spleen. Tdtomato expression can not be observed in brown fat. (For more detailed information please contact our technical advisor.)

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