

Gpr65-IRES-Cre

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

Gene Summary

Gene Symbol	Synonyms	Dig1, TDAG8, Gpcr25
	NCBI ID	14744
	MGI ID	108031
	Ensembl ID	ENSMUSG00000021886
	Human Ortholog	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

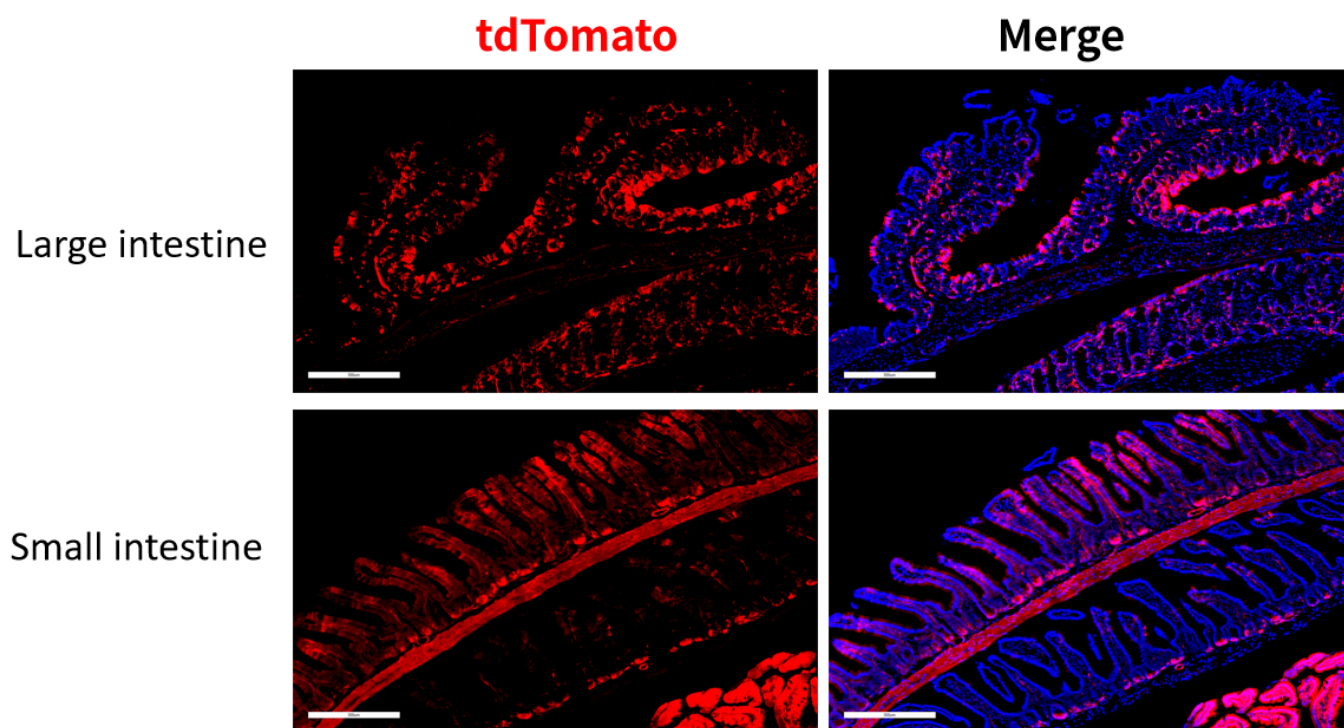


Fig. 1 Cre-mediated recombination in the intestine of $Gpr65^{Cre/+}; Rosa26^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in the large intestine and small intestine derived from $Gpr65^{Cre/+}; Rosa26^{tdTomato/+}$ mouse.

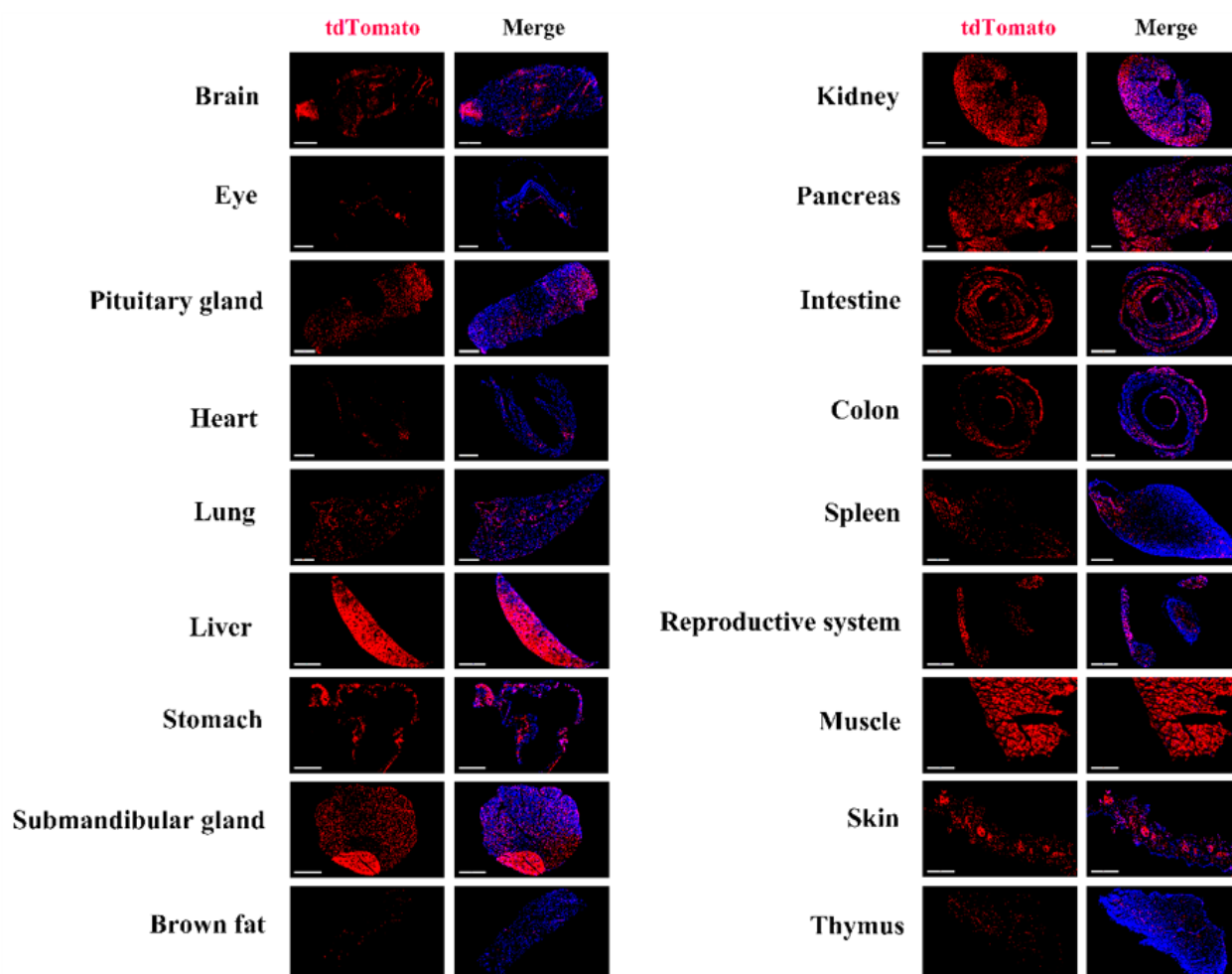


Fig. 2 Detection of tdTomato(red) in various tissues of $Gpr65^{Cre/+}$; $Rosa26^{tdTomato/+}$ mice. Cre mediated recombination can be detected in the pituitary gland, heart, liver, lung, stomach, salivary gland, kidney, pancreas, large intestine, skin, testis and epididymis. TdTomato can also be detected 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.)
