

Gja1-2A-DreERT2

Nomenclature	C57BL/6Smoc- <i>Gja1</i> ^{em1(2A-DreERT2)} Smoc
Cat. NO.	NM-KI-200026
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Gja1	Synonyms	Cx43; Npm1; Cnx43; Gja-1; AU042049; AW546267; Cx43alpha1; connexin43
	NCBI ID	14609
	MGI ID	95713
	Ensembl ID	ENSMUSG00000050953
	Human Ortholog	GJA1

Model Description

A 2A-DreERT2 expression cassette was knocked into the Gja1 gene stop codon site via CRISPR/Cas9 mediated recombination.

Research Application: Dre recombinase tool

*Literature published using this strain should indicate: Gja1-2A-DreERT2 mice (Cat. NO. NM-KI-200026) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

Gja1-2A-DreER;tdT

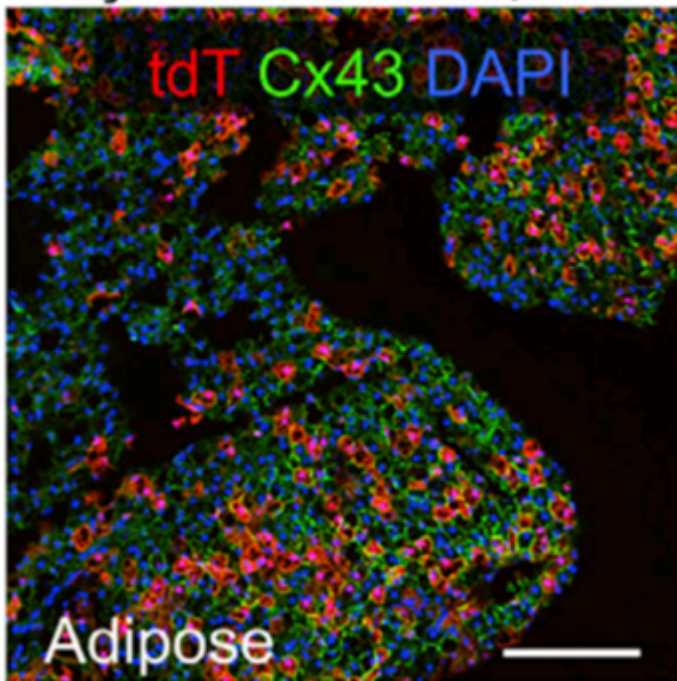


Fig.1 DreERT2-mediated recombination in the adipose tissue of $Gja1^{DreERT2/+}$; $R26^{tdTomato/+}$ mouse. TdTomato (red) expression can be detected in the adipose tissue after tamoxifen treatment. Connexin 43 (Cx43, encoded by $Gja1$, green) is a cell-cell communication gap junction protein expressed in adipose tissue. (Documented in the following reference.)

Publications

[A Suite of New Dre-recombinase Drivers Markedly Expands the Ability to Perform Intersectional Genetic Targeting](#)

References: CELL STEM CELL