

Gja1-Flox

Nomenclature	C57BL/6Smoc- <i>Gja1</i> ^{em1(flox)Smoc}
Cat. NO.	NM-CKO-200180
Strain State	Repository Live

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

These mice carry loxP sites flanking exon 2 of Gja1 gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of Gja1 gene.

Research Application: Research on the connection mechanism and adhesion of cell adhesion to endothelial cell contact

*Literature published using this strain should indicate: Gja1-Flox mice (Cat. NO. NM-CKO-200180) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Oculodentodigital Dysplasia	Phenotype(s)	MGI:3807710 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with P _{gk1} -cre mice.
	Reference(s)	Dobrowolski R, Sasse P, Schrickel JW, Watkins M, Kim JS, Rackauskas M, Troatz C, Ghanem A, Tiemann K, Degen J, Bukauskas FF, Civitelli R, Lewalter T, Fleischmann BK, Willecke K, The conditional connexin43G138R mouse mutant represents a new model of hereditary oculodentodigital dysplasia in humans. Hum Mol Genet. 2008 Feb 15;17(4):539-54
oculodentodigital dysplasia	Phenotype(s)	MGI:4420313 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with GFAP-cre mice.
	Reference(s)	Wiencken-Barger AE, Djukic B, Casper KB, McCarthy KD, A role for Connexin43 during neurodevelopment. Glia. 2007 May;55(7):675-86

Validation Data

No data