

Gck-Flox

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| 系統名 | C57BL/6Smoc- <i>Gck</i> ^{em1(flox)Smoc} |
| SMOC番号 | NM-CKO-241082 |
| 維持形態 | Developing |

遺伝子の概要

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| Gene Symbol Gck | Synonyms | Gk; GLK; HK4; HKIV; HXKP; Hlb62; MODY2; Gls006 |
| | NCBI ID | 103988 |
| | MGI ID | 1270854 |
| | Ensembl ID | ENSMUSG00000041798 |
| | Human Ortholog | GCK |

説明

These strains carry loxP sites flanking exon 5-6 of Gck gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of Gck gene.

*Literature published using this strain should indicate: Gck-Flox mice (Cat. NO. NM-CKO-241082) were purchased from Shanghai Model Organisms Center, Inc..

病気の予測

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| Familial Hyperinsulinemic Hypoglycemia 3 | 表現型 | MGI:6690664 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Ins2-cre mice. |
| | 参考文献 | Tornovsky-Babeay S, Weinberg-Corem N, Ben-Haroush Schyr R, Avrahami D, Lavi J, Feleke E, Kaestner KH, Dor Y, Glaser B, Biphasic dynamics of beta cell mass in a mouse model of congenital hyperinsulinism: implications for type 2 diabetes. Diabetologia. 2021 Feb 9; |

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| Maturity-Onset Diabetes Of The Young Type 2 | 表現型 | MGI:3603003 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Ins2-cre mice. |
| | 参考文献 | Postic C, Shiota M, Niswender KD, Jetton TL, Chen Y, Moates JM, Shelton KD, Lindner J, Cherrington AD, Magnuson MA, Dual roles for glucokinase in glucose homeostasis as determined by liver and pancreatic beta cell-specific gene knock-outs using Cre recombinase. J Biol Chem. 1999 Jan 1;274(1):305-15 |

表現型データ

No data