

Resource Summary Report

Generated by [dkNET](#) on Sep 17, 2026

B6;129S4-Gcg^{em1(Cre/ERT2)Khk}/Mmjax

RRID:MMRRC_042277-JAX

Type: Organism

Proper Citation

RRID:MMRRC_042277-JAX

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=42277

Proper Citation: RRID:MMRRC_042277-JAX

Description: Mus musculus with name B6;129S4-Gcg^{em1(Cre/ERT2)Khk}/Mmjax from MMRRC.

Species: Mus musculus

Notes: Research areas: Cell Biology, Developmental Biology, Diabetes, Endocrine Deficiency, Metabolism, Research Tools; Mutation Type: Targeted Mutation ; Collection:

Affected Gene: Gcg

Catalog Number: 042277-JAX

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:28271030](#)

Alternate IDs: MMRRC_42277-JAX, MMRRC_042277, MMRRC_42277

Organism Name: B6;129S4-Gcg^{em1(Cre/ERT2)Khk}/Mmjax

Record Creation Time: 20230308T055224+0000

Record Last Update: 20260912T135010+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S4-*Gcg*^{em1(Cre/ERT2)Khk}/Mmjax.

No alerts have been found for B6;129S4-*Gcg*^{em1(Cre/ERT2)Khk}/Mmjax.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Kim CW, et al. (2026) Intestinal interleukin-22 enhances GLP-1 production via the STAT3 pathway to improve glucose homeostasis during high-fat diet induced obesity in a study with male mice. *Nature communications*, 17(1).

Sellick K, et al. (2026) β -cell SLC38A5 supports amino acid-induced β -cell proliferation and glucagon secretion. *Frontiers in endocrinology*, 17, 1830329.

Tong JCL, et al. (2025) Localized GLP1 receptor pre-internalization directs pancreatic alpha cell to beta cell communication. *Cell metabolism*, 37(8), 1698.

Bernardo E, et al. (2025) HNF1A and A1CF coordinate a beta cell transcription-splicing axis that is disrupted in type 2 diabetes. *Cell metabolism*, 37(9), 1870.

Noguchi GM, et al. (2024) Urocortin 3 contributes to paracrine inhibition of islet alpha cells in mice. *The Journal of endocrinology*, 261(3).

Mosleh E, et al. (2020) Ins1-Cre and Ins1-CreER Gene Replacement Alleles Are Susceptible To Silencing By DNA Hypermethylation. *Endocrinology*, 161(8).

Ackermann AM, et al. (2018) GABA and Artesunate Do Not Induce Pancreatic β -to- β Cell Transdifferentiation In Vivo. *Cell metabolism*, 28(5), 787.

van der Meulen T, et al. (2017) Virgin Beta Cells Persist throughout Life at a Neogenic Niche within Pancreatic Islets. *Cell metabolism*, 25(4), 911.