

Resource Summary Report

Generated by T1D on Sep 6, 2026

B6;129S-Gcg^{tm1.1(icre)}Gkg/J

RRID:IMSR_JAX:030663

Type: Organism

Proper Citation

RRID:IMSR_JAX:030663

Organism Information

URL: <https://www.jax.org/strain/030663>

Proper Citation: RRID:IMSR_JAX:030663

Description: Mus musculus with name B6;129S-Gcg^{tm1.1(icre)}Gkg/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Gcg/J

Notes: gene symbol note: glucagon|; mutant stock: Gcg|

Affected Gene: glucagon|

Genomic Alteration: targeted mutation 1.1; George K Gittes

Catalog Number: JAX:030663

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;129S-Gcg^{tm1.1(icre)}Gkg/J

Record Creation Time: 20250513T053816+0000

Record Last Update: 20260905T044552+0000

Ratings and Alerts

- Used for humanized mouse by the Human Islet Research Network community.
Contact(s): [Alejandro Tamayo-Garcia](#), [Alejandro Caicedo](#) - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for B6;129S-Gcg^{tm1.1(icre)}Gkg/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#) .

Ren W, et al. (2024) Sympathetic nerve-enteroendocrine L cell communication modulates GLP-1 release, brain glucose utilization, and cognitive function. *Neuron*, 112(6), 972.

Tixi W, et al. (2023) Coordination between ECM and cell-cell adhesion regulates the development of islet aggregation, architecture, and functional maturation. *eLife*, 12.

Ly T, et al. (2023) Sequential appetite suppression by oral and visceral feedback to the brainstem. *Nature*, 624(7990), 130.

Zhang T, et al. (2022) An inter-organ neural circuit for appetite suppression. *Cell*, 185(14), 2478.

Lu B, et al. (2022) Alpha Cell Thioredoxin-interacting Protein Deletion Improves Diabetes-associated Hyperglycemia and Hyperglucagonemia. *Endocrinology*, 163(11).