

Resource Summary Report

Generated by [dkNET](#) on Sep 2, 2026

F344-Il2rg^{em1lexas}Rag2^{em1lexas}

RRID:RGD_38599190

Type: Organism

Proper Citation

RRID:RGD_38599190

Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=38599190>

Proper Citation: RRID:RGD_38599190

Description: Rattus norvegicus with name F344-Il2rg^{em1lexas}Rag2^{em1lexas} from RGD.

Species: Rattus norvegicus

Notes: This strain was established by targeting Il2rg gene and Rag2 gene in F344/Jcl using CRISPR/Cas9 system. gRNA seq to Il2rg: CCAACCTCACTATGCACTATAGG (PAM: first CCA); gRNA to Rag2: AACATAGCCTTAATTCAACCAGG (PAM: last AGG); Cas 9 mRNA transcribed from T7-NLS hCas9-pA (RDB13130) was used for the system. Gene transfer was performed by electroporation. This strain shows severe combined immunodeficiency (SCID) caused by 5-bp deletion in Il2rg gene on X chromosome and 1-bp insertion in Rag2 gene on chromosome 3. This strain grows normally under SPF condition. The sexual maturation is a bit late. [National BioResource Project for the Rat in Japan](#)

Catalog Number: 38599190

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Cryopreserved Embryo (as of 2020-09-14)

Alternate IDs: 38599190

Organism Name: F344-Il2rg^{em1lexas}Rag2^{em1lexas}

Record Creation Time: 20230509T191951+0000

Record Last Update: 20260829T184956+0000

Ratings and Alerts

No rating or validation information has been found for F344-*Il2rg*^{em1lexas}*Rag2*^{em1lexas}.

No alerts have been found for F344-*Il2rg*^{em1lexas}*Rag2*^{em1lexas}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Dalleywater W, et al. (2026) Generation of biologically responsive colon-like intestinal tissue patches from human induced pluripotent stem cells using a rapid co-differentiation platform. Stem cell research & therapy, 17(1).