Resource Summary Report

Generated by T1D on Sep 20, 2026

B6.Cg-Tg(Nrl-EGFP)1Asw/J

RRID:IMSR_JAX:021232
Type: Organism

Proper Citation

RRID:IMSR_JAX:021232

Organism Information

URL: https://www.jax.org/strain/021232

Proper Citation: RRID:IMSR_JAX:021232

Description: Mus musculus with name B6.Cg-Tg(Nrl-EGFP)1Asw/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 1; Anand Swaroop|neural retina leucine zipper gene|; mutant strain|congenic strain: Tg(Nrl-EGFP)1Asw|Nrl|

Affected Gene: transgene insertion 1; Anand Swaroop|neural retina leucine zipper gene|

Genomic Alteration: transgene insertion 1; Anand Swaroop

Catalog Number: JAX:021232

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.Cg-Tg(Nrl-EGFP)1Asw/J

Record Creation Time: 20250513T053743+0000

Record Last Update: 20260919T054929+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Nrl-EGFP)1Asw/J.

No alerts have been found for B6.Cg-Tg(Nrl-EGFP)1Asw/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 14 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Martinez-Fernandez de la Camara C, et al. (2023) Developmental Expression of the Cell Cycle Regulator p16INK4a in Retinal Glial Cells: A Novel Marker for Immature Ocular Astrocytes? The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society, 71(6), 301.

Aghaizu ND, et al. (2021) Repeated nuclear translocations underlie photoreceptor positioning and lamination of the outer nuclear layer in the mammalian retina. Cell reports, 36(5), 109461.

Barnea-Cramer AO, et al. (2020) Repair of Retinal Degeneration following Ex??Vivo Minicircle DNA Gene Therapy and Transplantation of Corrected Photoreceptor Progenitors. Molecular therapy : the journal of the American Society of Gene Therapy, 28(3), 830.

Orlans HO, et al. (2020) Dynamic in vivo quantification of rod photoreceptor degeneration using fluorescent reporter mouse models of retinitis pigmentosa. Experimental eye research, 190, 107895.

Hassall MM, et al. (2020) Analysis of Early Cone Dysfunction in an In Vivo Model of Rod-Cone Dystrophy. International journal of molecular sciences, 21(17).

Dvoriantchikova G, et al. (2019) The epigenetic basis for the impaired ability of adult murine retinal pigment epithelium cells to regenerate retinal tissue. Scientific reports, 9(1), 3860.

Yang H, et al. (2017) Role of the sigma-1 receptor chaperone in rod and cone photoreceptor degenerations in a mouse model of retinitis pigmentosa. Molecular neurodegeneration, 12(1), 68.

Reid CA, et al. (2017) Improvement of Photoreceptor Targeting via Intravitreal Delivery in Mouse and Human Retina Using Combinatory rAAV2 Capsid Mutant Vectors. Investigative ophthalmology & visual science, 58(14), 6429.

Mandai M, et al. (2017) iPSC-Derived Retina Transplants Improve Vision in rd1 End-Stage Retinal-Degeneration Mice. Stem cell reports, 8(1), 69.

Kanow MA, et al. (2017) Biochemical adaptations of the retina and retinal pigment epithelium support a metabolic ecosystem in the vertebrate eye. eLife, 6.

Singh MS, et al. (2016) Transplanted photoreceptor precursors transfer proteins to host photoreceptors by a mechanism of cytoplasmic fusion. Nature communications, 7, 13537.

Santos-Ferreira T, et al. (2016) Retinal transplantation of photoreceptors results in donor-host cytoplasmic exchange. Nature communications, 7, 13028.

Postel K, et al. (2013) Analysis of cell surface markers specific for transplantable rod photoreceptors. Molecular vision, 19, 2058.

Sharma YV, et al. (2012) Protective gene expression changes elicited by an inherited defect in photoreceptor structure. PloS one, 7(2), e31371.