Resource Summary Report

Generated by ASWG on Aug 10, 2026

B6.Cg-Tg(Thy1-COP4/EYFP)18Gfng/J

RRID:IMSR_JAX:007612
Type: Organism

Proper Citation

RRID:IMSR_JAX:007612

Organism Information

URL: https://www.jax.org/strain/007612

Proper Citation: RRID:IMSR_JAX:007612

Description: Mus musculus with name B6.Cg-Tg(Thy1-COP4/EYFP)18Gfng/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Tg(Thy1-ChR2/EYFP)18Gfng/J

Notes: gene symbol note: thymus cell antigen 1; theta|Channelrhodopsin||transgene insertion 18; Guoping Feng; mutant strain: Thy1|COP4||Tg(Thy1-COP4/EYFP)18Gfng

Affected Gene: thymus cell antigen 1; theta|Channelrhodopsin||transgene insertion 18; Guoping Feng

Genomic Alteration: transgene insertion 18; Guoping Feng

Catalog Number: JAX:007612

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Thy1-COP4/EYFP)18Gfng/J

Record Creation Time: 20250513T053702+0000

Record Last Update: 20260808T050907+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Thy1-COP4/EYFP)18Gfng/J.

No alerts have been found for B6.Cg-Tg(Thy1-COP4/EYFP)18Gfng/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 46 mentions in open access literature.

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

Chen Y, et al. (2026) On-demand seizures facilitate rapid screening of therapeutics for epilepsy. eLife, 13.

Kim CY, et al. (2026) Protocol to design and implement scalable wireless network system for high-throughput, automated behavioral and circuit neuroscience in mice. STAR protocols, 7(2), 104453.

Yu H, et al. (2025) Construction of a rodent neural network-skeletal muscle assembloid that simulate the postnatal development of spinal cord motor neuronal network. Scientific reports, 15(1), 3635.

Yang S, et al. (2025) Neural network tissue and myocytes co-culture system reveals effects of different myocytes on postnatal development of spinal cord neural network. Cellular and molecular life sciences : CMLS, 82(1), 378.

Beau M, et al. (2025) A deep learning strategy to identify cell types across species from high-density extracellular recordings. Cell, 188(8), 2218.

Dadgar-Kiani E, et al. (2024) Neuromodulation modifies ?-synuclein spreading dynamics in vivo and the pattern is predicted by changes in whole-brain function. Brain stimulation, 17(4), 938.

Zhai S, et al. (2024) Ca2+-dependent phosphodiesterase 1 regulates the plasticity of striatal spiny projection neuron glutamatergic synapses. Cell reports, 43(8), 114540.

Vaissiere T, et al. (2024) Syngap1 Promotes Cognitive Function through Regulation of Cortical Sensorimotor Dynamics. bioRxiv : the preprint server for biology.

Dell'Orco M, et al. (2023) Repetitive Spreading Depolarization induces the activation of cell differentiation, synaptic plasticity and neuroprotective pathways. bioRxiv : the preprint server for biology.

Broersen R, et al. (2023) Synaptic mechanisms for associative learning in the cerebellar nuclei. Nature communications, 14(1), 7459.

Hádinger N, et al. (2023) Region-selective control of the thalamic reticular nucleus via cortical layer 5 pyramidal cells. Nature neuroscience, 26(1), 116.

Dell'Orco M, et al. (2023) Repetitive spreading depolarization induces gene expression changes related to synaptic plasticity and neuroprotective pathways. Frontiers in cellular neuroscience, 17, 1292661.

Matityahu L, et al. (2022) A tonic nicotinic brake controls spike timing in striatal spiny projection neurons. eLife, 11.

Oz O, et al. (2022) Non-uniform distribution of dendritic nonlinearities differentially engages thalamostriatal and corticostriatal inputs onto cholinergic interneurons. eLife, 11.

Mesquida-Veny F, et al. (2022) Nociception-Dependent CCL21 Induces Dorsal Root Ganglia Axonal Growth via CCR7-ERK Activation. Frontiers in immunology, 13, 880647.

Mesquida-Veny F, et al. (2022) Genetic control of neuronal activity enhances axonal growth only on permissive substrates. Molecular medicine (Cambridge, Mass.), 28(1), 97.

Luis-Islas J, et al. (2022) Optoception: Perception of Optogenetic Brain Perturbations. eNeuro, 9(3).

Wang GH, et al. (2022) Pre-synaptic and post-synaptic A-type K+ channels regulate glutamatergic transmission and switching of the network into epileptiform oscillations. British journal of pharmacology, 179(14), 3754.

Hwang FJ, et al. (2022) Motor learning selectively strengthens cortical and striatal synapses of motor engram neurons. Neuron, 110(17), 2790.

Laricchiuta D, et al. (2021) Optogenetic Stimulation of Prelimbic Pyramidal Neurons Maintains Fear Memories and Modulates Amygdala Pyramidal Neuron Transcriptome. International journal of molecular sciences, 22(2).