

Resource Summary Report

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FVB.129P2-Pde6b⁺ Tyr/AntJ

RRID:IMSR_JAX:004828

Type: Organism

Proper Citation

RRID:IMSR_JAX:004828

Organism Information

URL: <https://www.jax.org/strain/004828>

Proper Citation: RRID:IMSR_JAX:004828

Description: Mus musculus with name FVB.129P2-Pde6b⁺ Tyr/AntJ from IMSR.

Species: Mus musculus

Synonyms: FVB/Ant

Notes: gene symbol note: phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide|tyrosinase; mutant strain|congenic strain: Pde6b|Tyr

Affected Gene: phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide|tyrosinase

Genomic Alteration: wild type|chinchilla

Catalog Number: JAX:004828

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: FVB.129P2-Pde6b⁺ Tyr/AntJ

Record Creation Time: 20250513T053646+0000

Record Last Update: 20260808T050848+0000

Ratings and Alerts

No rating or validation information has been found for FVB.129P2-Pde6b⁺ Tyr/AntJ.

No alerts have been found for FVB.129P2-Pde6b⁺ Tyr/AntJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Möhrle D, et al. (2026) Altered Auditory Maturation in Fragile X Syndrome and Its Involvement in Audiogenic Seizure Susceptibility. *Autism research : official journal of the International Society for Autism Research*, 19(1), e70152.

Han M, et al. (2025) Glycosaminoglycan sugar side chains on perineuronal nets in the fastigial nucleus regulate motor skills. *iScience*, 28(8), 112952.

Tuma J, et al. (2025) Altered olfactory responses in Fmr1 KO mice. *Scientific reports*, 15(1), 2952.

Zhang S, et al. (2025) Therapeutic GSK-3 β targeting stabilizes multifunctional β -catenin to rescue neuronal and behavioral deficits in fragile X messenger ribonucleoprotein 1 knockout mice. *Brain research bulletin*, 235, 111710.

Deng PY, et al. (2024) Circuit-based intervention corrects excessive dentate gyrus output in the fragile X mouse model. *eLife*, 12.

Louros SR, et al. (2023) Excessive proteostasis contributes to pathology in fragile X syndrome. *Neuron*, 111(4), 508.

Lindenmaier Z, et al. (2022) Examining the effect of chronic intranasal oxytocin administration on the neuroanatomy and behavior of three autism-related mouse models. *NeuroImage*, 257, 119243.

Deng PY, et al. (2022) FMRP regulates GABAA receptor channel activity to control signal integration in hippocampal granule cells. *Cell reports*, 39(7), 110820.

Hwang JY, et al. (2022) CPEB3-dependent increase in GluA2 subunits impairs excitatory transmission onto inhibitory interneurons in a mouse model of fragile X. *Cell reports*, 39(10), 110853.

Layman E, et al. (2022) Protocol for assessing phagocytosis activity in cultured primary murine microglia. *STAR protocols*, 3(4), 101881.

Akula SK, et al. (2020) The trajectory of gait development in mice. *Brain and behavior*, 10(6), e01636.

Shore AN, et al. (2020) Reduced GABAergic Neuron Excitability, Altered Synaptic Connectivity, and Seizures in a KCNT1 Gain-of-Function Mouse Model of Childhood Epilepsy. *Cell reports*, 33(4), 108303.

Licznerski P, et al. (2020) ATP Synthase c-Subunit Leak Causes Aberrant Cellular Metabolism in Fragile X Syndrome. *Cell*, 182(5), 1170.

Holderith N, et al. (2020) A High-Resolution Method for Quantitative Molecular Analysis of Functionally Characterized Individual Synapses. *Cell reports*, 32(4), 107968.

Antoine MW, et al. (2019) Increased Excitation-Inhibition Ratio Stabilizes Synapse and Circuit Excitability in Four Autism Mouse Models. *Neuron*, 101(4), 648.

Kopp N, et al. (2019) Gtf2i and Gtf2ird1 mutation do not account for the full phenotypic effect of the Williams syndrome critical region in mouse models. *Human molecular genetics*, 28(20), 3443.

Boero LE, et al. (2018) Enhancement of the Medial Olivocochlear System Prevents Hidden Hearing Loss. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 38(34), 7440.

He CX, et al. (2017) Tactile Defensiveness and Impaired Adaptation of Neuronal Activity in the Fmr1 Knock-Out Mouse Model of Autism. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 37(27), 6475.