Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Mar 31, 2025

B6.129P2(C)-Mecp2$^{tm1.1Bird}$/J

RRID:IMSR_JAX:003890
Type: Organism

Proper Citation

RRID:IMSR_JAX:003890

Organism Information

URL: https://www.jax.org/strain/003890

Proper Citation: RRID:IMSR_JAX:003890

Description: Mus musculus with name B6.129P2(C)-Mecp2$^{tm1.1Bird}$/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: methyl CpG binding protein 2; mutant strain|congenic strain: Mecp2

Affected Gene: methyl CpG binding protein 2

Genomic Alteration: targeted mutation 1.1; Adrian Bird

Catalog Number: JAX:003890

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: live

Alternate IDs: IMSR_JAX:3890

Organism Name: B6.129P2(C)-Mecp2$^{tm1.1Bird}$/J

Record Creation Time: 20230509T193242+0000

Record Last Update: 20240104T174805+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2(C)-Mecp2$^{tm1.1Bird}$/J.

No alerts have been found for B6.129P2(C)-Mecp2$^{tm1.1Bird}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 48 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Esposito A, et al. (2024) Unraveling autophagic imbalances and therapeutic insights in Mecp2-deficient models. EMBO molecular medicine, 16(11), 2795.

Zlatic SA, et al. (2023) Systemic Metabolic and Mitochondrial Defects in Rett Syndrome Models. bioRxiv : the preprint server for biology.

Bajikar SS, et al. (2023) MeCP2 regulates Gdf11, a dosage-sensitive gene critical for neurological function. eLife, 12.

Mykins M, et al. (2023) Wild-type MECP2 expression coincides with age-dependent sensory phenotypes in a female mouse model for Rett syndrome. Journal of neuroscience research, 101(8), 1236.

Rupert DD, et al. (2023) Selective Deletion of Methyl CpG Binding Protein 2 from Parvalbumin Interneurons in the Auditory Cortex Delays the Onset of Maternal Retrieval in Mice. The Journal of neuroscience : the official journal of the Society for Neuroscience, 43(40), 6745.

Khoury ES, et al. (2023) Dendrimer nanotherapy targeting of glial dysfunction improves inflammation and neurobehavioral phenotype in adult female Mecp2-heterozygous mouse model of Rett syndrome. Journal of neurochemistry.

Zlatic SA, et al. (2023) Systemic proteome phenotypes reveal defective metabolic flexibility in Mecp2 mutants. Human molecular genetics, 33(1), 12.

Nettles SA, et al. (2023) MeCP2 represses the activity of topoisomerase II? in long neuronal genes. Cell reports, 42(12), 113538.

Flores Gutiérrez J, et al. (2022) Mirtazapine treatment in a young female mouse model of

Rett syndrome identifies time windows for the rescue of early phenotypes. Experimental neurology, 353, 114056.

Steinkellner H, et al. (2022) TAT-MeCP2 protein variants rescue disease phenotypes in human and mouse models of Rett syndrome. International journal of biological macromolecules, 209(Pt A), 972.

Spennato M, et al. (2022) Neuroprotective Properties of Cardoon Leaves Extracts against Neurodevelopmental Deficits in an In Vitro Model of Rett Syndrome Depend on the Extraction Method and Harvest Time. Molecules (Basel, Switzerland), 27(24).

Li H, et al. (2022) A single-cell atlas reveals the heterogeneity of meningeal immunity in a mouse model of Methyl CpG binding protein 2 deficiency. Frontiers in immunology, 13, 1056447.

Sheppard K, et al. (2022) Stride-level analysis of mouse open field behavior using deep-learning-based pose estimation. Cell reports, 38(2), 110231.

Zlatic SA, et al. (2022) Convergent cerebrospinal fluid proteomes and metabolic ontologies in humans and animal models of Rett syndrome. iScience, 25(9), 104966.

Ribeiro MC, et al. (2022) Vitamin D modulates cortical transcriptome and behavioral phenotypes in an Mecp2 heterozygous Rett syndrome mouse model. Neurobiology of disease, 165, 105636.

Abellán-Álvaro M, et al. (2021) MeCP2 haplodeficiency and early-life stress interaction on anxiety-like behavior in adolescent female mice. Journal of neurodevelopmental disorders, 13(1), 59.

Matagne V, et al. (2021) Severe offtarget effects following intravenous delivery of AAV9-MECP2 in a female mouse model of Rett syndrome. Neurobiology of disease, 149, 105235.

Ehinger Y, et al. (2021) Analysis of Astroglial Secretomic Profile in the Mecp2-Deficient Male Mouse Model of Rett Syndrome. International journal of molecular sciences, 22(9).

Urbinati C, et al. (2021) Treatment with the Bacterial Toxin CNF1 Selectively Rescues Cognitive and Brain Mitochondrial Deficits in a Female Mouse Model of Rett Syndrome Carrying a MeCP2-Null Mutation. International journal of molecular sciences, 22(13).

Lee W, et al. (2020) MeCP2 regulates gene expression through recognition of H3K27me3. Nature communications, 11(1), 3140.