Resource Summary Report

Generated by RRID on Jul 30, 2026

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: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

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

Record Creation Time: 20250513T053642+0000

Record Last Update: 20260725T044351+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: JAX Mice and Services

Usage and Citation Metrics

We found 53 mentions in open access literature.

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

Liu S, et al. (2025) Cell type-specific 3D-genome organization and transcription regulation in the brain. Science advances, 11(9), eadv2067.

Roggero OM, et al. (2025) A Computational Approach to Identify Novel Protein Targets Uncovers New Potential Mechanisms of Action of Mirtazapine S(+) and R(-) Enantiomers in Rett Syndrome. Journal of neurochemistry, 169(5), e70093.

Lyon KA, et al. (2025) Astrocyte SEMA3C reduction improves Rett Syndrome phenotypes. bioRxiv : the preprint server for biology.

Ährlund-Richter S, et al. (2025) Persistent Disruptions in Prefrontal Connectivity Despite Behavioral Rescue by Environmental Enrichment in a Mouse Model of Rett Syndrome. The Journal of comparative neurology, 533(7), e70073.

Sinha A, et al. (2025) Astrocytic Regulation of aberrant perineuronal net formation in Mecp2 -null Neocortex. bioRxiv : the preprint server for biology.

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.

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.

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

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

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.

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.

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.

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).

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

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.

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