

# Resource Summary Report

Generated by [RRID](#) on Jul 30, 2026

## [B6.129P2\(C\)-Mecp2<sup>tm1.1Bird/J</sup>](#)

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<sup>tm1.1Bird/J</sup> 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<sup>tm1.1Bird/J</sup>

**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<sup>tm1.1Bird/J</sup>.

No alerts have been found for B6.129P2(C)-Mecp2<sup>tm1.1Bird/J</sup>.

---

## 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 $\beta$  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.