

Resource Summary Report

Generated by [RRID](#) on Aug 1, 2026

B6.129S-Mecp2^{tm1Hzo}/J

RRID:IMSR_JAX:005439

Type: Organism

Proper Citation

RRID:IMSR_JAX:005439

Organism Information

URL: <https://www.jax.org/strain/005439>

Proper Citation: RRID:IMSR_JAX:005439

Description: Mus musculus with name B6.129S-Mecp2^{tm1Hzo}/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; Huda Y Zoghbi

Catalog Number: JAX:005439

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S-Mecp2^{tm1Hzo}/J

Record Creation Time: 20250513T053650+0000

Record Last Update: 20260801T050354+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S-Mecp2^{tm1Hzo}/J.

No alerts have been found for B6.129S-Mecp2^{tm1Hzo}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Zuliani I, et al. (2020) The Anti-Diabetic Drug Metformin Rescues Aberrant Mitochondrial Activity and Restrains Oxidative Stress in a Female Mouse Model of Rett Syndrome. *Journal of clinical medicine*, 9(6).

Bertoldi ML, et al. (2019) MeCP2 Deficiency Disrupts Kainate-Induced Presynaptic Plasticity in the Mossy Fiber Projections in the Hippocampus. *Frontiers in cellular neuroscience*, 13, 286.

Cosentino L, et al. (2019) Methyl-CpG binding protein 2 functional alterations provide vulnerability to develop behavioral and molecular features of post-traumatic stress disorder in male mice. *Neuropharmacology*, 160, 107664.

Allemang-Grand R, et al. (2017) Neuroanatomy in mouse models of Rett syndrome is related to the severity of Mecp2 mutation and behavioral phenotypes. *Molecular autism*, 8, 32.

Cortelazzo A, et al. (2017) Persistent Unresolved Inflammation in the Mecp2-308 Female Mutated Mouse Model of Rett Syndrome. *Mediators of inflammation*, 2017, 9467819.

Kloth AD, et al. (2015) Cerebellar associative sensory learning defects in five mouse autism models. *eLife*, 4, e06085.

De Felice C, et al. (2014) Oxidative brain damage in Mecp2-mutant murine models of Rett syndrome. *Neurobiology of disease*, 68(100), 66.

Gambino F, et al. (2010) Synaptic maturation at cortical projections to the lateral amygdala in a mouse model of Rett syndrome. *PloS one*, 5(7), e11399.

Deng JV, et al. (2010) MeCP2 in the nucleus accumbens contributes to neural and behavioral responses to psychostimulants. *Nature neuroscience*, 13(9), 1128.