

# Resource Summary Report

Generated by [dkNET](#) on Sep 8, 2026

## B6.Cg-Mecp2<sup>tm1.1Jae</sup>/Mmucd

RRID:MMRRC\_000415-UCD

Type: Organism

### Proper Citation

RRID:MMRRC\_000415-UCD

### Organism Information

**URL:** [https://www.mmrrc.org/catalog/sds.php?mmrrc\\_id=415](https://www.mmrrc.org/catalog/sds.php?mmrrc_id=415)

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**Description:** Mus musculus with name B6.Cg-Mecp2<sup>tm1.1Jae</sup>/Mmucd from MMRRC.

**Species:** Mus musculus

**Notes:** Research areas: ; Mutation Type: Targeted Mutation ; Collection:

**Phenotype:** tremors [MP:0000745]| decreased brain size [MP:0000774]| abnormal olfactory bulb morphology [MP:0000819]| obese [MP:0001261]| decreased body weight [MP:0001262]| decreased anxiety-related response [MP:0001364]| ataxia [MP:0001393]| hypoactivity [MP:0001402]| impaired coordination [MP:0001405]| abnormal gait [MP:0001406]| abnormal pilomotor reflex [MP:0001492]| abnormal respiration [MP:0001943]| abnormal breathing pattern [MP:0001951]| apnea [MP:0001957]| premature death [MP:0002083]| decreased brain weight [MP:0002175]| abnormal motor learning [MP:0002804]| abnormal neuron morphology [MP:0002882]| increased susceptibility to age related obesity [MP:0003212]| abnormal behavior [MP:0004924]| abnormal brain wave pattern [MP:0004994]| cachexia [MP:0005150]| lethargy [MP:0005202]| abnormal action potential [MP:0005402]| tachypnea [MP:0005426]| abnormal body temperature [MP:0005535]| abnormal hippocampus CA2 region morphology [MP:0008265]| increased liver triglyceride level [MP:0009355]| increased brain cholesterol level [MP:0010162]

**Affected Gene:** Mecp2

**Catalog Number:** 000415-UCD

**Background:** Targeted Mutation

**Database:** Mutant Mouse Resource and Research Center (MMRRC)

**Database Abbreviation:** MMRRRC

**Source References:** [PMID:11242118](#), [PMID:16439027](#)

**Alternate IDs:** MMRRRC\_415-UCD, MMRRRC\_000415, MMRRRC\_415

**Organism Name:** B6.Cg-Mecp2<sup>tm1.1Jae</sup>/Mmucd

**Record Creation Time:** 20230308T054752+0000

**Record Last Update:** 20260905T110215+0000

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## Ratings and Alerts

No rating or validation information has been found for B6.Cg-Mecp2<sup>tm1.1Jae</sup>/Mmucd.

No alerts have been found for B6.Cg-Mecp2<sup>tm1.1Jae</sup>/Mmucd.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** Mutant Mouse Resource and Research Center (MMRRRC)

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## Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Farhoomand F, et al. (2023) Long-term cortical plasticity following sensory deprivation is reduced in male Rett model mice. Somatosensory & motor research, 40(4), 133.

Phillips ML, et al. (2019) Ventral hippocampal projections to the medial prefrontal cortex regulate social memory. eLife, 8.

Rietveld L, et al. (2015) Genotype-specific effects of Mecp2 loss-of-function on morphology of Layer V pyramidal neurons in heterozygous female Rett syndrome model mice. Frontiers in cellular neuroscience, 9, 145.

Bey AL, et al. (2014) Overview of mouse models of autism spectrum disorders. Current protocols in pharmacology, 66, 5.66.1.

Stuss DP, et al. (2013) Impaired in vivo binding of MeCP2 to chromatin in the absence of its DNA methyl-binding domain. Nucleic acids research, 41(9), 4888.

Stuss DP, et al. (2012) MeCP2 mutation results in compartment-specific reductions in dendritic branching and spine density in layer 5 motor cortical neurons of YFP-H mice. PloS one, 7(3), e31896.