

Resource Summary Report

Generated by [NIF](#) on Sep 22, 2026

B6.Cg-Mecp2^{tm1.1Jae}/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

Proper Citation: RRID:MMRRC_000415-UCD

Description: Mus musculus with name B6.Cg-Mecp2^{tm1.1Jae}/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: MMRRC

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

Alternate IDs: MMRRC_415-UCD, MMRRC_000415, MMRRC_415

Organism Name: B6.Cg-Mecp2^{tm1.1Jae}/Mmucd

Record Creation Time: 20230308T054752+0000

Record Last Update: 20260919T132930+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Mecp2^{tm1.1Jae}/Mmucd.

No alerts have been found for B6.Cg-Mecp2^{tm1.1Jae}/Mmucd.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

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.