

Resource Summary Report

Generated by PRECISE-TBI on Sep 18, 2026

B6.129S7-Prnp^{tm1Cwe}/Orl

RRID:IMSR_EM:01723

Type: Organism

Proper Citation

RRID:IMSR_EM:01723

Organism Information

URL: <https://www.infrafrontier.eu/emma/strain-details/?q=1723>

Proper Citation: RRID:IMSR_EM:01723

Description: Mus musculus with name B6.129S7-Prnp^{tm1Cwe}/Orl from IMSR.

Species: Mus musculus

Synonyms: prp BL6

Notes: gene symbol note: prion protein; mutant strain: Prnp

Affected Gene: prion protein

Genomic Alteration: targeted mutation 1; Charles Weissmann

Catalog Number: EM:01723

Database: European Mouse Mutant Archive

Database Abbreviation: EMMA

Availability: embryo

Organism Name: B6.129S7-Prnp^{tm1Cwe}/Orl

Record Creation Time: 20250513T062212+0000

Record Last Update: 20260912T065126+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S7-Prnp^{tm1Cwe}/Orl.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human Creutzfeldt-Jakob disease.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human Gerstmann-Straussler-Scheinker syndrome.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: European Mouse Mutant Archive

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Balducci C, et al. (2025) Tau oligomers impair memory and synaptic plasticity through the cellular prion protein. *Acta neuropathologica communications*, 13(1), 17.

Purro SA, et al. (2023) Two mouse models of Alzheimer's disease accumulate amyloid at different rates and have distinct A β oligomer profiles unaltered by ablation of cellular prion protein. *PloS one*, 18(11), e0294465.

Siberchicot C, et al. (2020) Prion protein deficiency impairs hematopoietic stem cell determination and sensitizes myeloid progenitors to irradiation. *Haematologica*, 105(5), 1216.

Bertani I, et al. (2017) Inhibition of IL-1 β Signaling Normalizes NMDA-Dependent Neurotransmission and Reduces Seizure Susceptibility in a Mouse Model of Creutzfeldt-Jakob Disease. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 37(43), 10278.

Miyamoto T, et al. (2016) Increasing the Receptor Tyrosine Kinase EphB2 Prevents Amyloid- β -induced Depletion of Cell Surface Glutamate Receptors by a Mechanism That Requires the PDZ-binding Motif of EphB2 and Neuronal Activity. *The Journal of biological chemistry*, 291(4), 1719.