

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

B6.129-Bace1^{tm1Pcw/J}

RRID:IMSR_JAX:004714

Type: Organism

Proper Citation

RRID:IMSR_JAX:004714

Organism Information

URL: <https://www.jax.org/strain/004714>

Proper Citation: RRID:IMSR_JAX:004714

Description: Mus musculus with name B6.129-Bace1^{tm1Pcw/J} from IMSR.

Species: Mus musculus

Synonyms: B6.129-Bace/J

Notes: gene symbol note: beta-site APP cleaving enzyme 1; mutant strain: Bace1

Affected Gene: beta-site APP cleaving enzyme 1

Genomic Alteration: targeted mutation 1; Philip C Wong

Catalog Number: JAX:004714

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: B6.129-Bace1^{tm1Pcw/J}

Record Creation Time: 20250513T053646+0000

Record Last Update: 20260808T050848+0000

Ratings and Alerts

No rating or validation information has been found for B6.129-Bace1^{tm1Pcw/J}.

No alerts have been found for B6.129-Bace1^{tm1Pcw/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Bi D, et al. (2025) BACE1-dependent cleavage of GABAA receptor contributes to neural hyperexcitability and disease progression in Alzheimer's disease. *Neuron*, 113(7), 1051.

Müller SA, et al. (2023) The Alzheimer's disease-linked protease BACE1 modulates neuronal IL-6 signaling through shedding of the receptor gp130. *Molecular neurodegeneration*, 18(1), 13.

Murray HC, et al. (2023) Progressive Spread of Beta-amyloid Pathology in an Olfactory-driven Amyloid Precursor Protein Mouse Model. *Neuroscience*, 516, 113.

Taylor HA, et al. (2022) PTPRD and DCC Are Novel BACE1 Substrates Differentially Expressed in Alzheimer's Disease: A Data Mining and Bioinformatics Study. *International journal of molecular sciences*, 23(9).

Weber M, et al. (2017) BACE1 across species: a comparison of the in vivo consequences of BACE1 deletion in mice and rats. *Scientific reports*, 7, 44249.

Heindl M, et al. (2015) Loss of Bace1 in mice does not alter the severity of caerulein induced pancreatitis. *PloS one*, 10(5), e0125556.

Koike MA, et al. (2012) APP knockout mice experience acute mortality as the result of ischemia. *PloS one*, 7(8), e42665.