

STOCK *Mapt*^{*tm1(EGFP)Kit*} *Psen1*^{*tm1Mpm*}
Tg(*APP*^{*Swe*},*tauP301L*)1Lfa /Mmjax CB010 mES cells
MMRRC Stock No: 37557-JAX

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relevant mutations.

Donating Investigator

Laura Reinholdt, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

VIEW GENETICS

RESEARCH APPLICATIONS

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Details

Detailed Description

The CB010 embryonic stem cell line was established using day 3.5 blastocysts from a cross between a homozygous B6;129-*Psen1*^{*tm1Mpm*} Tg(*APP*^{*Swe*},*tauP301L*)1Lfa/Mmjax female (MMRRC #034830/JAX#004807) and a male

homozygous for *Mapt*^{tm1(EGFP)Nrl}. This cross resulted in biological replicates that are heterozygous/hemizygous for *Psen1*^{tm1Mpm} and Tg(APP^{Swe,tauP301L})1Lfan (MMRRC#03558, #03559). The recommended wild type control is MMRRC#037551. All lines are heterozygous for *Mapt*^{tm1(EGFP)Klt}. These cell lines have been proven useful in in vitro experiments directed towards differentiation of ESCs to cortical neurons. Cell lines were derived and maintained on mitomycin-C treated mouse embryonic fibroblast feeder cells (MEFs) derived from C57BL/6J embryos. This cell line was not germline tested.

+ Development

- Genetics

Currently there are no related genes or alleles for this strain.

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Phenotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

[Genotyping resources and troubleshooting](#)

Citation

When using the STOCK *Mapt*^{tm1(EGFP)Klt} *Psen1*^{tm1Mpm} Tg(APP^{Swe,tauP301L})1Lfa /Mmjax CB010 mES cells mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #37557 in your Materials and Methods section.

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Number of Mice

Frequency

Product

Comment

Frequency...

Products...

A D D M O R E I N T E R E S T

S U B M I T

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