

B6.Cg-Tg(APPswe,PSEN1dE9)85Dbo/Mmjax CB040

mES cells

MMRRC Stock No: 37564-JAX

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mutations.

Donating Investigator

Laura Reinholdt, The Jackson Laboratory

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## GENETIC OVERVIEW

Genetic Background

Generation

VIEW GENETICS

## RESEARCH APPLICATIONS

VIEW ALL RESEARCH APPLICATIONS

### Details

#### Detailed Description

The CB040 embryonic stem cell line was established using day 3.5 blastocysts from a cross between a hemizygous B6.Cg-Tg(APPswe,PSEN1dE9)85Dbo/Mmjax female (MMRRC #034832/JAX#005864) and a C57BL/6J male. This cross resulted

in biological replicates that are hemizygous for Tg(APP<sup>swe</sup>,PSEN1<sup>dE9</sup>)85Dbo (MMRRC#037566, #037567, #037568) as well as a wild type control (MMRRC#037565). These cell lines have been proven useful in in vitro experiments directed towards differentiation of ESCs to cortical neurons. The APP<sup>swe</sup> and PSEN1<sup>dE9</sup> transgenes are also available as ESC lines generated from various crosses (see MMRRC#037546 to #037550 and #037551 to #037553). 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.

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## + Development

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## - Genetics

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

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## - Disease/Phenotype

### + Disease Terms

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### + Research Areas By Phenotype

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### + Mammalian Phenotype Terms by Genotype

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### + References

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## - 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 B6.Cg-Tg(APP<sup>swe</sup>,PSEN1<sup>dE9</sup>)85Dbo/Mmjax CB040 mES cells mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #37564 in your Materials and Methods section.

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Frequency

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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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