

Resource Summary Report

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SD-Tg(Thy1-APP^{DI})BWevn

RRID:RRRC_00974

Type: Organism

Proper Citation

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Organism Information

URL: http://rgd.mcw.edu/tools/strains/strains_view.cgi?id=626168255

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Description: Rattus norvegicus with name SD-Tg(Thy1-APP^{DI})BWevn from RGD.

Species: Rattus norvegicus

Notes: This novel transgenic rat produces low levels of human familial cerebral amyloid angiopath (CAA) Dutch/Iowa E22Q/D23N mutant amyloid beta protein in brain and recapitulates many of the pathologic aspects of human small-vessel CAA. A pcDNA3 vector containing 2.1 kb of human APP (isoform 770) cDNA was used to introduce the mutations Swedish K670N/M671L, Dutch E693Q, and Iowa D694N using the QuikChange kit. The APP770-SwDI cDNA was amplified by PCR using primers containing the NheI five linker and SacII three linker. The PCR product of the APP770-SwDI was subcloned between exons II and IV of a Thy1.2 expression cassette using NheI and SacII restriction sites. The completed construct was microinjected into pronuclei of Sprague-Dawley single-cell embryos. Founder rats were identified by Southern blot analysis of tail DNA. Transgenic offspring were determined by PCR analysis of tail DNA. All subsequent analyses were performed with hemizygous transgenic rats. [Rat Resource and Research Center](#)

Catalog Number: 00974

Background: transgenic

Database: Rat Resource and Research Center (RRRC)

Database Abbreviation: RRRC

Availability: Cryorecovery (as of 2025-10-30)

Alternate IDs: RGD_626168255, 626168255, RRRC_974, RRRC_0974, RRRC_00974

Organism Name: SD-Tg(Thy1-APP^{DI})BWevn

Record Creation Time: 20250913T052733+0000

Record Last Update: 20260829T095503+0000

Ratings and Alerts

No rating or validation information has been found for SD-Tg(Thy1-APP^{DI})BWevn .

No alerts have been found for SD-Tg(Thy1-APP^{DI})BWevn .

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Resource and Research Center (RRRC)

Usage and Citation Metrics

We have not found any literature mentions for this resource.