Ngn3\textsuperscript{(HA.LCA)} - Mouse Strain RES4145

**Mouse Information**

**Common Name:** Ngn3\textsuperscript{(HA.LCA)}

**MGI Official Name:** Ngn3\textsuperscript{(HA.LCA)}

**Description:** This mouse line was made by gene targeting and designed to express an HA-tagged version of the transcription factor Ngn3. The Lox71 and Lox2272 sites were inserted flanking the Ngn3 coding sequence. Within the flanked region an HA-tag was placed at the N-terminus of the Ngn3 protein. This allele can be used to study chromatin and protein-protein interactions of Ngn3. Additionally, the Lox71 and Lox2272 sites allow for manipulations of the flanked region by RMCE.

**Categories:** Cre-lox floxed alleles

**Genetic Alterations**

1) Targeted Mutagenesis

**Type of Allele** Cassette Acceptor

**Targeted Gene** Neurogenin 3 (Neurog3 - NCBI GeneID:11925)

**Targeted Allele** Not provided

**Description of Targeting Vector** The targeting vector contains a 5.5 kb 5' arm and a 3.5 kb 3' arm. Lox71 and Lox2272 sites were inserted flanking the Ngn3 gene, where Ngn3 cDNA was replaced with that encoding for an HA-tagged Ngn3 protein. The vector also contains a FRT-flanked Pgk-Puro-deltaTK cassette for positive selection by puromycin (targeting events) and negative selection by ganciclovir (RMCE events).

**Targeting Vector Genbank File** Ngn3HALCA.gb

**Citations** Not Available

**Strain Information**

**Strain Type:** Mixed

**Chimera/Founder Genetic Background:** 129S6/SvEvTac

**Current Genetic Background:** C57BL/6 (date recorded: 11/21/2011)

**Strain Description:** Not provided

**Associated Images**

**Image 1**

**Description:** Not provided

**Reference:** Not provided
Repositories
Gu Lab

Stock #: Not provided
Availability Notes: Not provided

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Associated Publications
No publications associated

Comments
There are no comments for this entry.