B6;C3-Tg(NEFH-tTA)8Vle Tg(tet0-TARDBP*)4Vle/J

Additional Use Restrictions Apply

Stock No: 028412 | rNLS8 (or NEFH-hTDP-43 NLS)
Transgenic

Overview

Also Known As: rNLS8 (or NEFH-hTDP-43 NLS) , NEFH-hTDP-43DeltaNLS, rNLS8
The Jackson Laboratory will not distribute double transgenic mice. Instead, we will distribute the individual transgenic lines; that is, mice having either the NEFH-tTA transgene (see Stock No. 025397) or the tet0-hTDP-43-NLS transgene (see Stock No. 014650).
This regulatable NLS (rNLS8) double transgenic line recapitulates cytoplasmic TDP-43 pathology reminiscent of amyotrophic lateral sclerosis/frontotemporal lobar degeneration in brain and spinal cord, accompanied by a progressive neurodegenerative ALS-like phenotype. The phenotype is controllable/reversible by the tetracycline analog, doxycycline (dox).

Users should be aware that mice harboring both transgenic alleles will exhibit the lethal characteristics of amyotrophic lateral sclerosis (ALS)/frontotemporal lobar degeneration and must be provided tetracycline or a suitable analog such as doxycycline for longer term maintenance.

Genetic overview

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<th>Genetic Background</th>
<th>Generation</th>
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Tg(NEFH-tTA)8Vle

Allele Type
Transgenic (Transactivator)

Tg(tet0-TARDBP*)4Vle

Allele Type
Transgenic (Humanized sequence, Inducible, Inserted expressed sequence)

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