129S6.FVB(B6)-Tg(Drd1a-cre)AGsc/Knduj

Stock No: 028298 | D1-Cre

Congenic, Transgenic

REPOSITORY LIVE

PLACE ORDER

3–6 week average lead time depending on quantity and age requests are not accepted
Also Known As: D1-Cre
Cre is expressed from the mouse Drd1a promoter in this YAC transgenic strain (D1-Cre). The spatio-temporal pattern of Cre expression in dopaminceptive neurons is reported to closely recapitulate that of the endogenous Drd1a gene in embryonic and adult stages. Of note, D1-Cre YAC transgenic mice are available on 129S-congenic background (Stock No. 028298) and C57BL/6J-congenic background (Stock No. 030329).

Donating Investigator
Eric R Kandel, Columbia University

GENETIC OVERVIEW
Genetic Background: N10×pN1F5
Generation: N10+pN1F5 (2018-08-08 00:00:00)

Tg(Drd1a-cre)AGsc
Allele Type: Transgenic (Recombinase-expressing)

RESEARCH APPLICATIONS
Research Tools
Neurobiology Research

BASE PRICE
Starting at:

$76.22 Domestic price for female

$339.22 Domestic price for breeder pair

VIEW PRICE LIST

Details
Detailed Description
Alterations in dopamine signaling are responsible for several psychomotor disorders.

These YAC transgenic mice express Cre recombinase from the mouse Drd1a (dopamine receptor D1) promoter. The spatio-temporal pattern of Cre expression in dopaminceptive neurons is reported to closely recapitulate that of the endogenous Drd1a gene in embryonic and adult stages, as assessed by immunohistological approaches.

Expression is reported to be prominent in the major projection areas of the dopaminergic system, including the striatum, nucleus accumbens, olfactory tubercles and prefrontal cortex. Clear but lower expression is seen in layer VI of the cortex. In hippocampus, CA2 and scattered cells in the dentate gyrus express Cre. Several thalamic nuclei and the ventromedian hypothalamic nucleus also express Cre. In retina, robust staining is observed in the inner nuclear layer.

Cre begins to be expressed, albeit at low levels, at E16 in the striosomal neurons of the embryonic striatum.

Genotyping Protocols
MELT: Tg(Drd1a-cre)
Genotyping resources and troubleshooting

Dietary Information
New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)
Breeding Considerations
Hemizygotes are viable and fertile.

Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote
Hemizygote x Noncarrier

Citation
When using the DT-cre mouse strain in a publication, please cite the originating article(s) and include JAX stock #028298 in your Materials and Methods section.

Facility Barrier Level Descriptions
AX10 (Standard)

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted

Repository Live

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<th>Domestic</th>
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Pricing effective for USA, Canada and Mexico shipping destinations

### Live Mouse

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<tr>
<th>AGE</th>
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<th>GENOTYPE</th>
<th>PRICE</th>
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All Related Strains
Leading the search for
TOMORROW'S CURES