

B6(129S4)-Et(cre/ERT2)13866Rdav/J

Stock No: **012688**

 **Enhancer Trap**

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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mutations for studying gain or loss of function and/or fate mapping in brain tissues.

Donating Investigator

Ronald L Davis, The Scripps Research Institute Florida

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GENETIC OVERVIEW

Genetic Background

Generation

Et(cre/ERT2)13866Rdav

Alele Type

Transgenic (Recombinase-expressing, Inducible)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

Mice hemizygous for this enhancer trap lentiviral transgene are viable and fertile, with expression of a CreERT2 fusion gene (Cre recombinase fused to Cre-ER^{T2} [a G400V/M543A/L544A triple mutation of the human estrogen receptor ligand binding domain]) under control of the promoter/enhancer regions surrounding the site where the enhancer trap lentiviral transgene randomly inserted. While Cre-ERT2 fusion gene activity is designed to be inducible (observed following tamoxifen administration), the donating investigator reports CreERT2 activity for this line is the same with or without tamoxifen exposure. Specifically, the donating investigator reports Cre recombinase activity in brain tissues as: nice staining in amygdala, with some cells in ventral striatum, hypothalamus, pallidum, and midbrain. No staining in other tested tissues is reported. When these enhancer trap lentiviral transgenic mice are bred with mice containing *loxP*-flanked sequences, tamoxifen-inducible Cre-mediated recombination will result in deletion of the floxed sequences in the Cre-expressing cells of the double mutant offspring.

For characterization information, see images at the Allen Institute for Brain Science website ([Et\(cre/ERT2\)13866Rdav images](#)).

The Cre-ERT2 fusion protein consists of Cre recombinase fused to a triple mutant form of the human estrogen receptor which does not bind its natural ligand (17 β -estradiol) at physiological concentrations but will bind the synthetic estrogen receptor ligands 4-hydroxytamoxifen (OHT or tamoxifen) and, with lesser sensitivity, ICI 182780. Restricted to the cytoplasm, Cre-ERT2 can only gain access to the nuclear compartment after exposure to tamoxifen. To counteract the mixed estrogen agonist effects of tamoxifen injections, which can result in late fetal abortions in pregnant mice, progesterone may be coadministered.

Development

Expression Data

Control Suggestions

Selected References

Genetics

[Et\(cre/ERT2\)13866Rdav](#)

⊖ Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

⊖ 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

Probe: [Gt\(rosa\)26sor Probe](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, transgenic carrier mice may be bred together, to wildtype (noncarrier) siblings, or to C57BL/6J inbred mice (Stock No. [000664](#)).

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6(129S4)-Et(cre/ERT2)13866Rdav/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012688 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

⊖ Pricing & Availability



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Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non carrier for Et(cre/ERT2)13866Rdav	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6(129S4)-Et(cre/ERT2)13866Rdav/J Frozen Embryo	\$2595.00
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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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