

B6(129S4)-Et(cre/ERT2)2007Rdav/J

Stock No: 009584

 Transgenic, 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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Regions surrounding the site where the enhancer trap transgene randomly inserted. These mice may be useful for generating conditional 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)2007Rdav

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 transgene are viable and fertile, with expression of the Cre-ERT2 fusion gene under control of the promoter/enhancer regions surrounding the site where the enhancer trap transgene randomly inserted. Cre recombinase activity is observed in brain tissues following tamoxifen administration. The donating investigators may not have assessed expression in tissues other than brain. When these enhancer trap transgenic mice are bred with mice containing a *loxP*-flanked sequence of interest, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the floxed sequence(s) in *cre*-expressing tissues in the offspring.

For characterization information, see images at the Allen Institute for Brain Science website ([Et\(cre/ERT2\)2007Rdav images](#)).

The Cre-ERT2 fusion protein (Cre-ER^{T2}) 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\(cre/ERT2\)2007Rdav](#)

– 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:[Generic Cre Probe](#)

Standard PCR:[Generic Cre Melt Curve Analysis](#)

[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)2007Rdav/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #009584 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



Cryo
Recovery

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

Cryorecovery - Domestic Pricing

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or non carrier for Et(cre/ERT2)2007Rdav	\$2,854.50

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