These CAGGCre-ER transgenic mice have widespread expression of a tamoxifen-inducible Cre recombinase.

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

Donating Investigator
IMR Colony, The Jackson Laboratory

GENETIC OVERVIEW

Tg(CAG-cre/Esr1*)5Amc

Allele Type
Transgenic (Recombinase-expressing, Inducible)

RESEARCH APPLICATIONS

Research Tools

BASE PRICE
Starting at:
These CAGGCre-ER<sup>TM</sup> transgenic mice have a tamoxifen-inducible cre-mediated recombination system driven by the chicken beta actin promoter/enhancer coupled with the cytomegalovirus (CMV) immediate-early enhancer. When bred with mice containing loxP-flanked sequences, tamoxifen-inducible Cre-mediated recombination results in deletion of the floxed sequences in widespread cells/tissues of the offspring. Tamoxifen administration will also induce Cre recombination in developing embryos of treated mothers and in cultured cells derived from transgenic mice. Homozygous mice are not viable or fertile. Heterozygous mutant mice are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities.

The CreERTM fusion protein consists of Cre recombinase fused to a G525R mutant form of the mouse estrogen receptor; which does not bind its natural ligand (17β-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-ERT 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.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for these FVB/N-congenic CAGGCre-ER<sup>TM</sup> mice. It should be noted that the phenotype of these mice could vary from that originally described. We may modify the FVB/N-congenic CAGGCre-ER<sup>TM</sup> strain description if necessary as published results become available.
Genotyping Protocols
Standard PCR: Tg(CAG-cre)  
Probe: Generic Cre Probe  
Standard PCR: Generic Cre  
Probe: Tg(CAG-cre)- Probe  
Genotyping resources and troubleshooting

Breeding Considerations
These mice were bred to FVB/NJ inbred mice (Stock No. 001800) for many generations using a marker-assisted, speed congenic approach to generate this FVB/NJ-congenic strain. When maintaining the live congenic colony, carrier mice may be bred with wildtype (noncarrier) mice from the colony or with FVB/NJ inbred mice.

Additional Breeding and Husbandry Support

Citation
When using the CAGGCRe-ER™ mouse strain in a publication, please cite the originating article(s) and include JAX stock #017595 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
Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

**CRYORECOVERY - DOMESTIC PRICING**

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non carrier for Tg(CAG-cre/Esr1*)5Amc</td>
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</tbody>
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**RELATED PRODUCTS AND SERVICES**

| Frozen Mouse Embryo | FVB.Cg-Tg(CAG-cre/Esr1*)5Amc/J Frozen Embryo | $2,595.00 |

**PAYMENT TERMS AND CONDITIONS**

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

**THE JACKSON LABORATORY'S GENOTYPE PROMISE**

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain's phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

**LICENSING INFORMATION**

Phone: 207-288-6470
Email: TechTran@jax.org
## Related Strains

- All
- By Allele
- By Gene
- By Collection