

TRM: Floxed Caspase-8 Mice

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BACKGROUND

The *Casp8* gene encodes a cysteinyl aspartate protease that is an essential part of the caspase activation cascade initiated by death receptors but it is also involved in preventing death receptors, Toll-like receptors TLR3 and TLR4 and T-cell receptors from inducing necroptosis. Caspase-8 also is essential for mouse development.

TECHNOLOGY DESCRIPTION

These mice possess *loxP* sites on either side of exon 3 of the targeted *Casp8* gene. Mice that are homozygous for this allele are viable and fertile. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon 3 deleted in the *cre*-expressing tissues.

APPLICATIONS

These floxed mutant mice possess *loxP* sites flanking exon 3 of the *Casp8* gene. This strain may be useful for generating conditional mutations in applications related to apoptosis, necrosis, inflammation and immunity.

STATE OF DEVELOPMENT

The mice are designated Tangible Research Material (TRM). A complete description, including genotyping, phenotyping, etc is found at The Jackson Lab cat. No.027002; <https://www.jax.org/strain/027002>

INTELLECTUAL PROPERTY INFO

Academic and non-profit institutions please order directly from The Jackson Laboratory. Commercial entities require a license from UC San Diego contact (<https://innovation.ucsd.edu/contact/>).

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OTHER INFORMATION

KEYWORDS

Apoptosis, necrosis, inflammation,
immunity, caspase-8

CATEGORIZED AS

- **Medical**
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