

Mouse Rederivation Request Form
Mouse Genetics Core Facility
Cedars-Sinai Medical Center
Core Director: Makoto Katsumata, PhD
310-248-6523 (x86523), Davis Building 2067

Request #: _____ - _____ Core use only Date: _____ (please submit this form for each mutant line)

Principal Investigator: _____ Phone #: _____ Email: _____

Office location: _____ Lab Location: _____

Contact person (if not PI): _____ Phone #: _____ Email: _____

Account (project #): _____ Account (activity #): _____ Account administrator: _____

IACUC Protocol #: _____ Approved? Yes No Expiration Date: _____

Protocol title: _____

Background of your mutant strain

Reason: Infection (pathogen[s] _____) Poor breeder Importing Cryorecovery

Source of the mice: Internal Room #: _____ External: _____
(Consult with Comparative Medicine for quarantine, and Materials Transfer Office for MTA issues)

Form of internal/external mouse line: Live mice Frozen embryos Frozen sperm Frozen ES cells

Natural mutant Transgenic Knockout (Knock in) Homozygote Hetero(hemi)zygote

Nature of the mutation (lethal if homozygous, etc.): _____

Reference paper (if any): _____

Is the line hetero(hemi)zygous or homozygous? Does the line need to be rederived as homozygous? No Yes

Your heterozygous male breeder(s) will be crossed with wild type egg donors. Resulting pup from rederivation will be half heterozygous and half wild type.

Your homozygous male breeder(s) will be crossed with wild type egg donors. Resulting pups from rederivation will be all heterozygous.

Please provide ~10 egg donors between 3~4 wks or >8 wks of age and 1~5 or more proven male breeders (1~2 egg donors/male breeder). If you are in a hurry or troubled with poor breeders, heterozygous rederivation may be the only option.

Rederivation can be performed by *in vitro* fertilization with a user-provided sperm donor and wild type egg donors

Name of your mutant line	Male/ Female?	Homo/ Hetero?	How many?	Age range (wks)	Proven breeder?	Genetic background (C57BL/6, FVB, etc.)	Preferred strain for egg donors

If you provide egg donors from your own stock, total cost could be significantly reduced. However, egg donors need to be between 3-4 weeks or more than 8 weeks of age. Egg donors between 4-8 weeks of age would not produce enough eggs upon hormone injection. Currently, reestablishing a mutant line from fresh or cryopreserved sperm is still challenging, but intracytoplasmic sperm injection (ICSI) can be performed with additional costs if IVF is problematic. The core would like to know how many males and females are available for production of fertilized eggs for embryo transfer. Please note that all egg donors and sperm donors will be sacrificed.

Please contact core director to discuss rederivation procedures for individual situations.

Core use only

Wt egg donors	Options	Own egg donors	Mixed embryos		
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