Resource Summary Report

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MGH Transgenic and Gene Targeting Facility

RRID:SCR_009932 Type: Tool

Proper Citation

MGH Transgenic and Gene Targeting Facility (RRID:SCR_009932)

Resource Information

URL: http://harvard.eagle-i.net/i/0000012e-6de9-a291-55da-381e80000000

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Description: Core facility that provides the following services: Sperm Cryoperservation -Standard Mouse Backgrounds; including quality test (QC), 129 or Hybrid ES Cell transfection package for conventional or BAC vector (from DNA transfection to DNA preparation) ~200 colonies, C57BL/6 (JM8A) ES Cell transfection package for conventional or BAC vector (from DNA transfection to DNA preparation) ~200 colonies, Microinjection of one targeted 129, JM8A, or hybrid ES Cell clone, Microinjection of one targeted C57BL/6 (JM8 & others) ES Cell clone, Transgenic / DNA pronuclear Microinjection, Transgenic/ BAC DNA pronuclear Microinjection to hybrid mouse strain, Mice colony breeding, Mice ID tag & tail biopsy, Mice tail DNA preparation, Sperm Cryoperservation - Non-Standard Mouse Backgrounds; including quality test(QC), Recovery live born pups for testing following QC, IVF recovery of one mouse line from cryopreserved sperm for most strains (~10 pups provided), Recovery of cryopreserved mice embryos (up to 80 embryos), Special DNA Prep.

The MGH Transgenic and Gene Targeting Facility generates transgenic and knockout or knock-in mice to study gene function in embryonic stem cell and somatic cell systems. Services include: microinjection of DNA into fertilized embryos for the creation of transgenic mice, transfection of DNA into ES cells for the generation of recombinant ES cell clones, injection of gene-targeted ES cell clones into host blastocysts for the generation of gene knockout or knock-in mice, and other related ES cell based services. The facility is also equipped to perform in vitro fertilization projects, cryopreservation of mouse sperm and embryos, recovery of cryopreserved mouse sperm and embryos, and derivation of ES cell lines from a variety of genetic backgrounds. The facility provides consultation within reason on experimental design and vectors for gene targeting-related projects. The facility can also provide advice for the preparation of DNA, recombinant ES clones, mouse genotyping, handling and husbandry. The facility supports innovative and experimental approaches

involving transgenic and knockout or knock-in mice to better help investigators study gene regulation and function, and develop appropriate animal models to study human genetic disorders.

Resource Type: core facility, service resource, access service resource

Keywords: quality control, cryoembedding, transfection, microinjection, mouse breeding, tail biopsy, dna extraction, in vitro fertilization

Funding:

Resource Name: MGH Transgenic and Gene Targeting Facility

Resource ID: SCR_009932

Alternate IDs: nlx_156397

Alternate URLs: http://www.partners.org/researchcores/transgenic/transgenic_MGH.asp

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Ratings and Alerts

No rating or validation information has been found for MGH Transgenic and Gene Targeting Facility.

No alerts have been found for MGH Transgenic and Gene Targeting Facility.

Data and Source Information

Source: <u>SciCrunch Registry</u>

Usage and Citation Metrics

We have not found any literature mentions for this resource.