

## **ES Cell Expansion Service Request Form**

Please read instructions before completing the form (#4).

- 1. Project Summary (Please describe the goal of your project. For guidance, please see example project summary form found at <http://ESCore.ucsf.edu/forms>.)**

The goal of my project is to characterize a knockout of Mfg1.

## **2. Scientific Information**

Project title	Mfg1 KO
Name of ES Cell Line	Mfg1 <sup>Tm1</sup> A08, C11, F12
Name of Gene modified	Mfg1
Origin of ES Cell Line	KOMP/Eucomm
Positive Selection Marker	G418
Growth medium composition*	Standard
# of Cells/Vial	5 x 10 <sup>6</sup>

**IMPORTANT! Please upload a copy of shipping materials/instructions from original source to MyCORES!**

## **3. Services you need**

<b>Services</b>	<b>Requested services</b>
Expansion of ES cells	X
Chromosome count	X
Preparation for microinjection	X

## **4. Requirements for ES Cell Expansion Service**

Upon application for services:

- It is required that you submit sufficient information about your ES cell line (origin of cells, feeder-dependent or -independent, growth media condition, and number of cells per vial).

## UCSF ES Cell Targeting Core

- There will be extra charges for special media requirement and feeders.

### After expansion:

- We will give you 5 frozen vials (~1 million cells/vial) for future injection and chromosome counting along with a cell pellet (~6 million) for you to validate genotype of cells.
- We strongly recommend getting a chromosome count done before injection, because euploidy is predictive of germline transmission.
- We strongly recommend doing either Southern or qPCR before microinjection. Clones from most resources are not confirmed for additional random integration. Generally speaking, random integration occurs in 1 out of 10~20 clones even if your targeting vector has positive and negative selection markers.
- We will revive, prepare, and deliver cells to the Gladstone Transgenic Gene Targeting Core for microinjection on the arranged date.