



DF/HCC Mouse Engineering Core
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IN VITRO GENE TARGETING APPLICATION

CONTACT INFORMATION

Date: _____	Project Name: _____
Principal Investigator: _____	
Institution: _____	Department: _____
Address: _____ _____	
Phone: _____	Email: _____
Lab Contact: _____	
Phone: _____	Email: _____

ADDITIONAL INFORMATION

1. Do you receive industrial support for:

- a. any portion of your salary, or the salary of individuals working under your supervision, on the project in which the transgenic mouse will be used? Yes No
- b. the research project in which the transgenic mouse will be used? Yes No
- c. purchase of supplies, reagents, animals, tissues or cells which will be used in the research project for which the transgenic mouse is requested? Yes No

2. Do you have any active agreements with industry for the same scope of work for which the transgenic mouse will be used? Yes No

If you answered "Yes" to Questions 1 or 2, please explain briefly:

3. Will the transgenic mouse be used in conjunction with any other Material(s) received (not purchased) from another institution, company or any other third party? Yes No

If "Yes", please identify the other Material(s) and where it/they came from:

If "Yes", was there any Agreement, Statement of Investigator Form, letter of intent or correspondence of any kind between you and the provider of the Other Material(s) stating conditions, restrictions, or guidelines under which the Other Material(s) would be used? Yes No

4. Do you anticipate reporting the results generated from the studies using the transgenic mouse to any for-profit entity? Yes No

If "Yes", please identify the for-profit entity:

5. Scientific Rationale

Briefly describe the specific aim of the study, and the rationale for generating this knockout strain.

6. Animal Protocols

Provide the appropriate protocol number(s) for project obtained from the Harvard IACUC.

7. DNA Construct

NOTE: We require a minimum of 60 ug of DNA (2 – 4 ug/ ul) for the electroporation.

Attach a schematic diagram of the DNA construct. Please include restriction map, location and size of exons and introns, and drug resistance genes used.

a. What is the concentration of your DNA solution? _____

b. Indicate how the concentration was determined.

c. How was the construct linearized?

8. Electroporation into Embryonic Stem Cells

Which type of ES cells should be targeted? JM8 J1 NOD

Which drug selection gene should be applied after electroporation?

G418 selection against Neomycin Ganciclovir to select against TK

Hygromycin Puromycin

Will you be using diphtheria toxin? Yes No

ADDITIONAL INFORMATION (CONTINUED)

9. Genotyping

NOTE: The Core facility will provide the investigator with 192 DNA samples to genotype unless otherwise specified before the project begins.

Please describe genotyping strategy.

For Core Use Only:

Work Request/Case Number(s):
