Transfer and Validation of PCR Assay of Transgenic Rodents

In order to ensure the efficient transfer of DNA-based protocols for the genetic monitoring of transgenic animal strains, Therion recommends that the following materials and information be provided.

It is the policy of Therion to perform an initial study to validate the efficacy and utility of the assay prior to accepting production samples. **Therion cannot guarantee successful transfer and validation of the assay unless all information and materials listed below are submitted at least one month prior to the receipt of production samples.**

PLEASE NOTE:
Due to assay limitations Therion will make up to two attempts to process the submitted control samples using the reagents and protocol provided. At that time Therion will submit a brief report summarizing the results. If the transfer is unsuccessful Therion will contact the client for approval before additional work is performed. Additional charges may result from tests that cannot be readily transferred with reproducible results.

I. GENERAL INFORMATION

Contact Person: Phone number: ( )

Company: Email Address:

Transgenic line name: Microinjected or knockout (circle one)

Gene: human mouse other_____
(please circle one)

Genetic background of strain:

Copy number if known of microinjected line:

Pertinent publications (please list separately if necessary):

II. INFORMATION/REAGENTS REQUIRED

Please provide a minimum of two and a maximum of five control samples of each expected genotype (e.g. wild type, hetero- or hemizygote, homozygote). We prefer tail clips, 1 cm in length placed in 1 ml of 70% ethanol (shipped overnight at room temperature), but will accept isolated genomic DNA (minimum 15 ug).

Primers

1. Sequence of primers used in reaction:

   primer name:
   sequence: 5' –

   primer name:
   sequence: 5' –

   primer name:
   sequence: 5' –

   primer name:
   sequence: 5' –

Please provide an aliquot of each primer (minimum 100 ng). If sufficient primer is not provided, primers will be synthesized and the charges passed on to the client.

Reaction Conditions

1. Reaction buffer (or vendor if commercial):
2. Final Magnesium concentration:
3. Reaction volume:
4. Final concentration of primers:
5. Final concentration of dNTPs:
6. Concentration of template DNA:
7. Cycle conditions (include times, temperatures and number of cycles):
8. Expected size(s) of PCR reaction products (must include photo of gel):

   Homozygote:

   Hetero- or hemizygote:

   Wild type:

Questionnaire completed by: Date:

Phone: Email:

Fax:

For assistance in completing this questionnaire, please contact Dr. Mary Maltbie at maltbie@theriondna.com