

# Transgene Microinjection Project

**Name of investigator:**

**Date:**

**Name of PI / laboratory:**

**Name of construct / project:**

**Please indicate briefly the purpose of the research:**

**Number of injections requested:**

1 set of injection includes 300 eggs injected, which would give birth to up to 50 pups with up to 10 transgenic lines, depending of the quality of DNA. At least 30 pups born is the minimum guaranteed. The number of transgenics obtained can vary from 0 to #10 and is dependent of the quality of the DNA (there is no guarantees there). We guaranty 500 eggs injected or 250 eggs re-implanted or 50 pups born whichever comes first.

**In case of failure, a second round of injection will be performed for free (subject to condition: see page 3)**

**Map of the construct.**

Please paste here a brief simplified map of the plasmid from which the fragment is extracted, some relevant restriction sites including the sites used for extracting the fragment. Any relevant information is welcome.

**Method of extraction / purification of the fragment used:**

The mandatory method requested is using an agarose gel band, purified using the GeneClean III kit from Bio 101. That gives the most efficient purified DNA for microinjection. The fragment has to be re-suspended in dd water (and not in the buffer provided with the kit).

**Picture of the gel:**

Please paste here a picture of the agarose gel showing the purified band to inject. Indicate the size of the fragment and the estimated concentration of the band.

**Method used to determine concentration (UV, eye...):**

**Sequence done:**  check the box, please attach a copy.

**Number of tubes provided and concentration:**

0.5 ng/ $\mu$ l:

1 ng/ $\mu$ l:

2 concentrations of purified fragment are recommended 0.5 and 1 ng/ $\mu$ l, diluted in dd water. Each aliquot should contain 15  $\mu$ l, be carefully labeled on the top of the tube, as well as on the side. The full name of the investigator, the name of the construct and its concentration need to be on the side label. The top label can have a shorter version of the information.

At least 2 tubes of each concentration have to be provided.

**Additional remarks:**

## **Policies (please read carefully):**

### **1) Genotyping option:**

Having the TMF performing the genotyping of the first generation provides the assurance of quality. If no transgenic line is obtained at the first try, a second round of injection will be performed for free. It is the responsibility of the investigator to provide genotyping material (primers, probe), information (PCR protocol) and the appropriate controls to the TMF.

Please paste a picture of a gel / blot showing the controls for genotyping here (PCR of a positive control plasmid or Southern blot of WT DNA for example) and indicate the conditions for a proper genotyping.

If the investigator decides to waive this genotyping option and decides to perform the genotyping him/herself, he/she also waives the second free injection in case of a poor result.

### **2) Scheduling your injection spot:**

When you want to schedule an injection you can either:

a) Wait until the construct is finalized and ready before asking for an injection spot. In that case you do not have to worry about any possible waste of mice. In another hand you might have to expect some delay as the injections are processed in the order they are received, or

b) Take a risk with scheduling in advance your injection by projecting your expected date to be ready. If you are not ready on time you can:

- Cancel the injection at least 3 weeks in advance.

- If we can find another project to replace the one that cannot be done, the mice purchased can be transferred to the new investigator. Nevertheless, if the mice were already in the facility, you would have paid for their housing until their transfer.

- If no other project can replace yours, the mice will stay at the responsibility (and charge) of the PI who they were ordered originally for.

**Signature and date:**