

CRISPR/Cas9 or TALENs Submission Form

PI: _____

CRISPR/Cas9 TALENs

Construct name (short w/ no unusual characters): _____

If CRISPR, please note type of mutation and insertion template (if applicable) below:

Global KO Point Mutant Knock-In Conditional Knock-In

Insert Template: dsDNA ssODNs

Contact person: _____

Contact person info:

phone #1: _____ phone #2: _____

FAX: _____ pager: _____

Email: _____

Date Submitted: _____

SERVICE DESCRIPTION: mRNA/DNA will be injected into the pronucleus or cytoplasm of fertilized, viable murine oocytes isolated from a set of C57Bl/6xCBA (hybrid) female mice. Other strains can be used for an increased fee. Before injection, you will need to provide some information about the vector, a screening assay method, and some administrative details. Contact Mia Wallace after completing the form. Mia is at 314.747.4554, or mia@wustl.edu to review the construct information. All facility services are performed in the order received and kept confidential.

BACKGROUND: A brief description of the scientific rationale for producing the construct comprehensible to those outside the immediate field.

GENE STRUCTURE: Diagram the TALENs or CRISPR construct and label salient features, including the targeted sequence location, intron/exon boundaries, and size of each sequence.

Screening: Before injecting the construct, you will need a set of PCR primers suitable for genotyping the resulting animals for deletions. We use a PCR genotyping protocol that works well [Stratman and Simon (*Transgenic Res.* 12, 521-522 (2003))]. All primers are 30-mers with ~50% GC content. If you provide your own primers you will need at least 50µL of a 100µM solution for each 30-mer. Please indicate deletion specific primer sequences below.

Primers Provided (please give primer names): _____ amplicon size

#1 _____

Sequence: _____

#2 _____

Sequence: _____

BILLING INFORMATION

PI: _____

Department/Division & Dept. # _____

PI signature: _____

Bill to fund (number)*: _____

Accounting contact (name): _____

* Investigators who expect to receive a subsidy from dedicated Core grants, please check the appropriate box below and fill out the required additional forms. The additional forms for Digestive Diseases Research Core Center ([DDRCC](#)), Diabetes Research Center ([DRC](#)), and the WashU Musculoskeletal Research Center ([MRC](#)) investigators can be found on the respective websites. Approval of the project by the Core Director is required for subsidy. Subsidy cannot be guaranteed without approval BEFORE the service is performed.

DDRCC

DRC

MRC

ANIMAL TRANSFER: We will automatically transfer the transgenic founder animals to you at weaning age unless you instruct us otherwise. Before injection, we will need an Animal Studies Committee protocol number for your project, and a location to transfer the mice. The ASC protocol need only be for the analysis of the animals - the Core Facility has ASC approval for the procedures used to generate the animals. At the time of transfer, we will notify you by email to expect the animals in your barrier room. Please allow approximately 2 weeks after weaning for animals to be moved; we will not transfer any mice until their health screen has come back negative for pathogens.

ASC number _____ Exp. Date _____

Transfer animals to building: _____ Room #: _____