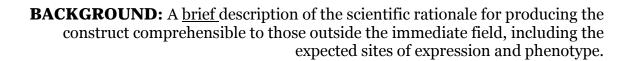
Transgenic Construct Submission Form

PI:	
	unusual characters):
Contact person:	
Contact person info:	
phone #1:	phone #2:
FAX:	pager:
Email:	
Date Submited:	
fertilized, viable murine oocytoon strain requested for each se C57BL/6J (inbred), FVB/N (inbe used for an increased fee. I PCR to detect transgenic found transgenic founder animals perconstructs. Before injection, y transgene, a genotyping assay Mia Wallace after completing mia@wustl.edu. We will arrangement of the work of the	Transgenes will be injected into the pronuclei of es isolated from a set of 10-15 females (depending ession). Mouse strains available for injection are abred) or C57Bl/6xCBA (hybrid). Other strains can DNA from each resulting mouse will be screened by der animals. To date, we have averaged 10% or live births, with significant variation between you will need to provide some information about the protocol, and some administrative details. Contact the form. Mia is at 314.747.4554, or ange a meeting with you to turn over the DNA and see construct information. All facility services are ed and kept confidential.
circumstances or requirement	tion requested below. If you have any special ts (e.g. a detrimental phenotype or requirement for ntact us to make arrangements. We are happy to
Which strain of mice for inject	tions?
FVB/N (ii C57Bl/6x0 C57Bl6/J	nbred) CBA (hybrid) (inbred)



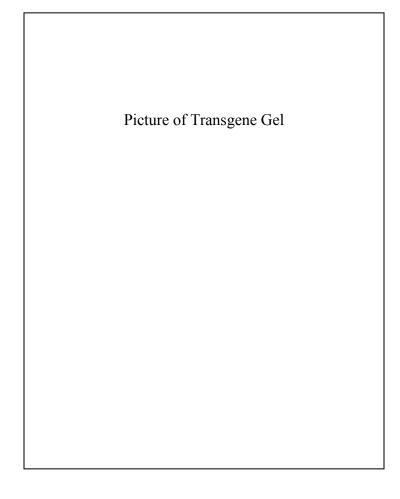
GENE STRUCTURE: Diagram the transgene construct and label salient features, including the promoter, reporter, stop and start sites for transcription, stop and start sites for translation, intron/exon boundaries, and size of each sequence.

CONSTRUCT PREPARATION PROTOCOL: The construct should be prepared for injection using the following protocol: http://mgc.wustl.edu/Protocols.aspx#xgene If you prefer a different method, please contact Mia in advance. BAC constructs should be supplied in high salt buffer. Please contact Mia in advance of all BAC submissions for information on construct preparation. The construct should be freed from vector sequences with a restriction digest resulting in fragments that are readily separated by agarose gel electrophoresis. Digest enough material to yield 1µg of construct after purification (yields are typically 25-50%). Please submit your DNA sample in TE or injection buffer (10mM TRIS, pH=7.4, 0.1mM EDTA). We will need at least 500ng of DNA for injection, and this should be provided in a tube labeled with the construct name and DNA concentration. The construct name should be short, alphanumeric, and not contain Greek or other unusual characters, subscripts or superscripts.

Elute the DNA from the QIAEX resin with 10mM Tris, pH=8.0 (buffer EB in the kit). Repeat the elution and combine the two eluants. Precipitate the DNA with 0.7 volumes of isopropanol. Incubate on ice for 30 min. Centrifuge at 4°C for 30 min, 8000rpm.

Carefully remove the supernatant with a pipet and wash the DNA with an equal volume of cold 70% ETOH, air dry for 15 – 30 minutes until pellet is clear (check every 5 minutes – DO NOT OVERDRY), redissolve in TE or injection buffer (10mM TRIS, pH=7.4, 0.1mM EDT). Add buffer, let sit RT 15 min, pipet with barrier tip several times, solubilize overnight at 4°C.

Use 1µl of the construct solution to determine the concentration of the DNA with a fluorometer or low-volume spectrophotometer. Run 200ng of the construct on an agarose gel with appropriate size markers and visualize with ethidium bromide staining. A single, sharp band of the appropriate size should be evident. Attach an <u>original</u> picture of the gel to this report. We will need at least 500ng of DNA for injection, and this should be provided in a tube labeled with the construct name and DNA concentration. The construct name **should be short**, **alphanumeric**, **and not contain Greek or other unusual characters**, **subscripts or superscripts**. A fluorometer is available in Mia's laboratory.



GENOTYPING: Before injecting the transgene, you will need a set of PCR primers suitable for genotyping the resulting animals. We use a PCR genotyping protocol that works for all transgenes [Stratman and Simon (*Transgenic Res. 12*, 521-522 (2003)]. This protocol requires primers that are 30 nucleotides in length, and we have proven primer sets for many transgenes (please see <u>Services / PCR page</u>). If your transgene contains any of these sequences, you do not need to provide PCR primers. If your transgene does not contain these sequences, you should design primers as indicated on the <u>Protocols page</u>. All primers are 30-mers with ~50% GC content and produce an amplimer of 100-400 base pairs. We will pick the primers if you provide us with the transgene sequence. If you provide your own primers you we will need at least 50μL of a 100μM solution for each 30-mer. Please indicate either in-house primers or transgene specific primer sequences below.

Proven MGC Primer Set (please see Primer Pair	rs):	
Primers Provided (please give primer names):		— amplimer size
#1		
Sequence:		
#2		
Sequence:		

BILLING INFORMATION PI:				
PI:		`		
PI signature:				
PI signature:Bill to fund (number)*:				
Accounting contact (name).				
* Investigators who expect to r	eceive 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), the Wa <u>shU Ce</u> nter	for Musculoskeletal		
Research (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 EDANGED IN THE				
ANIMAL TRANSFER: We will	i automatically transfe	r the transgenic founder		
animals to you at weaning age un	iess you instruct us oti	nerwise. 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.				
nearm screen has come back nega	uve for patnogens.			
ASC number				
Transfer animals to building:		Room #:		
Signature:				