## Gene Targeting and Transgenic Resource Roswell Park Cancer Institute Transgenic Service Request Form

Please fill out as completely as possible. Provide as many of the details in section II that apply to your construct. Return to Aimee Stablewski (<u>aimee.stablewski@roswellpark.org</u> or fax 845-5908; tel 845-5843).

Institution:	☐ Roswell Park	□ SUNYAB
DNA construct to	be injected:	
Construct name:		
Gene:		
Promoter:		
Poly A site:		
Splice sites (Need	ed at the 5' end of your ger	ne for good expression):
Epitope tags (Opti	onal but useful for detectiv	ng transgene expression):
Cloning vector:		
Insert size:		
D 4 .: - 4:	1.4 .1 .1	
transgenes require	es that they are removed fro	rt from the vector (Note that successful expression of om surrounding vector sequences!):  nsgene (e.g., Locus control regions, enhancers, etc.):
Any other features	es that they are removed fro	om surrounding vector sequences!):
Any other features  Please attach a det  Success Issues:	s that they are removed from that are relevant to the transmitted map of the clone.	om surrounding vector sequences!):
Any other features  Please attach a det  Success Issues:  Has a construct lik  Yes  Have you tested the	s that they are removed from that are relevant to the transmitted map of the clone.  The this been previously used In No the construct for expression as is a simple control that is a construct!	om surrounding vector sequences!):  Insgene (e.g., Locus control regions, enhancers, etc.):  d, anywhere, to make transgenic animals?  Reference:

4.	Do you have any reason to anticipate lethality problems in utero, or implantation problems?  ☐ Yes ☐ No
5.	Do you have any reason to anticipate health problems with positive pups?  ☐ Yes ☐ No
IV.	Founder Detection
1.	How will transgene integration be confirmed in of potential founder mice?  Typically, Southern or PCR analysis is done using tail DNA, but other methods are possible as well.  □ Southern □ PCR □ Other (describe below)
2.	Have the probes or primers already been tested using mouse DNA only as a negative control and mouse DNA spiked with single copy amounts of transgene-containing plasmid as a positive control? For this control, use about one picogm. linearized transgenic construct per microgm of mouse DNA.  A robust founder detection method is critical to set up before we begin to make mice! If you need mouse DNA to use as a control, we can provide this. Check all the boxes that apply.  By Yes, testing was done By The probes work well (we can show the results)  Testing in progress No, testing was not done Please send control DNA
3.	How will transgene expression be confirmed in founder mice? Describe below. This typically involves RNA or protein detection with a transgene-specific assay.
V.	Animal Issues:
1.	What protocol number will the mice be under when they are transferred to you?Approval date
2.	Do you have approved space to house these animals from Lab Animal Resources?
VI.	Getting us going on your microinjections
1.	Use your preferred method for preparing DNA but be sure to do 2 CsCl gradients.
2.	Digest approximately 20 µgm of plasmid and use half for isolating the fragment for microinjection. <i>Use OUR protocol for preparing fragments (next page)</i> . Do not gel purify the remaining half of your digested DNA, give it to us as is.
3.	Provide a concentrated stock solution of DNA dissolved in sterile microinjection buffer (10 mM Tris pH 7.5, 0.1 mM EDTA) that we can dilute.
4.	Provide a photo of the gel showing the DNA with concentration standards and size markers.
5.	II. 1 1
	Unless you have a particular need for a different mouse strain, we will do microinjections in F2(C3Hf/HeRos X C57BL/10Rospd) embryos. Note that the requirement for different mouse strains may incur additional costs.

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