Institute of Molecular Biology, Academia Sinica 2789-9312, 2652-1438

Case	#:		
Case	#:		

Pronuclei Microinjection Application Form

Genome Editing Approach

Request date: (IMB secretary)		Submission date: (TCF staff)		Approved date: (TCF manager)	
Requester		In		Institute	
PI	PI		Phone		
Construct Name					
Preferred Mouse Genetic Background		•	/B/NJ □ C57BL/6J ther (Special request)		
Type of Genome Editing Tool		☐ TALENs (of <i>in-vitro</i> transcription) ☐ CRISPR/Cas9 (of <i>in-vitro</i> transcription)			
Off-Target counts					
Nature of Construct		☐ Homologous Recombination (HR, (co-injected with donor DNA)			
Expected Phenotype		☐ Potentially le			Jnknown

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Case #: **Construct Description** □ **T7** Promoter for in-vitro **Transcription** □ SP6 **Circular Plasmid** ☐ CsCl₂ Banding □ Qiagen Column **Preparation Method** ☐ Other _____ **Construct Size** ☐ Total Size _____ KB **Enzyme for** Linearization **Gel Photo** (Please paste the gel photo here to Note: Please make sure you satisfy the following requirements. proof your transgenic construct has been completed) Gel electrophoresis should be clear and all the fragments are fully separated Gel photo should be large and the following info should be included: ☐ MW marker (please specify) ☐ Uncut circular plasmid ☐ linearized plasmid All fragments should be clearly indicated by size and name

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Case #: Results of in-vitro Tests Note: Please test the efficiency and genotyping approach of the TALENs/CRIPR-Cas9 invitro in advance 1. The TALENs/CRISPR-Cas9 was tested in _____ (cell line name) 2. ☐ The screening was performed using a.

PCR and Restriction Enzyme(RE) Digestion: (RE name) b. PCR and mismatch-specific nuclease: _____ (i.e. T7E1, Surveyor assay...etc.) c. SSA (single strand annealing) assay, tested in _____ (cell line name) d. Others: (Please specify) (Please use a diagram to explain your screening strategy and paste or attach the in-vitro test results) **TCF Note**

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	Case #:
	Donor DNA information
Tuno of Done, DNA	SS ODN (oligo-deoxylnucleotide) : bases, concentration:ng/μl
Type of Donor DNA	☐ dsDNA, concentration:ng/μl
	length of homologous arms: Long arm kb, short arm kb
(Please use a diagi	ram to explain your design, expected result after HR and genotyping
	strategies)
TCF Note	

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Case #:

TALEN, CRISPR/Cas9 Pronuclei Microinjection Checklist

Special Notice

Please check the following questionnaire according to your construct conditions.

Faithful answer will help us to precede the case faster and smoother.

If any of the condition listed below does not fit with your experimental design, please contact TCF manager or TCF committee. Such case might be either treated as special request or rejected from routine TCF services.

 construct and conceyping
☐ In-vitro test and genotyping strategies have been tested
successfully

☐ Tested genotyping result(s) is attached with this form

1 Construct and Genetyning

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Case	#:		
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Pronuclear Microinjection Case Evaluation Form

Please fill up the following questionnaire for case evaluation by the transgenic committee. A briefing maybe asked for the final service approval. 1. Has this animal model been made and/or available elsewhere? 2. Has this requested service been submitted elsewhere? 3. Can products from this service be available for other researchers / institutes? 4. For experience sharing and for teaching purpose, can this service be used as a study case in the TCF monthly discussion meeting? 5. Is the production of this transgenic mouse approved by IACUC? Please specify the IACUC protocol number below. Yes. IACUC protocol No.: _____ (Please note that if IACUC protocol hasn't been submitted or approved, TCF will hold the process until it is approved.) P.I. name and affiliation

Date

Signature

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Case #:
Pronuclear Microinjection Agreement
All TCF services require the agreement and signature from service user with full understanding of all the following statements:
I have carefully reviewed the TCF guideline and condition for using the service, and I agree to follow completely to the TCF guideline.
2. I acknowledge that TCF reserves rights to reject or stop my service request at any time point, if the guideline and condition are not fully complied.
3. I agree to acknowledge TCF services in the way of using the following statement in publication. "We acknowledged the Transgenic Core Facility of Academia Sinica in consulting and generating the mice. The transgenic core is funded by Academia Sinica Core Facility and Innovative Instrument Project (AS-CFII-111-207)".

Signature

P.I. name and affiliation

Date