The Cancer Institute of New Jersey®
Bringing research to life.

NCI CCC
A Comprehensive Cancer Center Designated by the National Cancer Institute

Transgenic/Knock-out Mouse (TG/KO) Facility

For a service quote/consultation please complete and email or fax to:

Mantu Bhaumik, Ph.D.
Email: bhaumima@umdnj.edu
Tel: 732-235-5978 • Fax: 732-235-6681

Gene Targeting Service Request Form

PRINCIPAL INVESTIGATOR INFORMATION	
Principal Investigator (PI):	
Institution: ☐ UMDNJ ☐ Princeton Univ. ☐ Rutgers Univ. ☐ Other: _____	
Department:	
Telephone:	Email:
REQUESTOR INFORMATION *(if different from PI)*	
Requestor:	
Telephone:	Email:
PI MEMBERSHIP STATUS	
☐ CINJ Full Member ☐ CINJ Associate Member ☐ Academic (non-CINJ member) ☐ Other	
PROJECT INFORMATION	
Project Description:	
RESEARCH RELATED APPROVALS	
IACUC Approval #:	IACUC Approval Date:
Institutional Biosafety (IB) Approval #:	IB Approval Date:
SERVICE INFORMATION	
Source of ES cells for targeting: ☐ 129Sv ☐ C57Bl6 ☐ Other ES line: _____	
Name of cell line:	
Was this targeting construct attempted before? ☐ Yes ☐ No ➢ If yes, what were the results: _____	
Probe size: ☐ 3′ probe: _____ ☐ 5′ probe: _____ Restriction enzyme for 3′ probe: _____ 3′ expected size: ☐ Wildtype: _____ ☐ Recombined: _____ Restriction enzyme for 5′ probe: _____ 5′ expected size: ☐ Wildtype: _____ ☐ Recombined: _____	
Please provide a copy of the Southern Blot using 3′ and 5′ probes demonstrating the successful hybridization.	
RESPONSIBLE PARTY BILLING INFORMATION	
UMDNJ Banner Index # :	Non-UMDNJ Purchase Order # :
Responsible Party: ☐ PI ☐ Other, please specify: _____	
Business Manager:	
Telephone:	Email:
SIGNATURES	
PI Signature:	Date:
Requestor Signature:	Date:

Disclaimer: **Quoted fees are best estimates for requested service.**
Actual cost will be determined at completion of service.

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Service Agreement for Gene Targeting

1. The investigator must provide a complete map of the gene targeting construct, all restriction sites and sequence analysis data.
2. All DNA including targeting vector and probes will be purified by precipitation and analyzed by TG/KO personnel.
3. All probes must be tested by Southern Blot analysis using genomic DNA from same strain of mice as ES cells are derived or ES cell line that will be used for gene targeting. Southern Blot data must be provided and approved before the gene targeting project is initiated.
4. The investigator must provide Qiagen purified plasmid DNA and digested with appropriate enzymes – 150µg targeting construct and 3-5µg gel purified each of 3′ and 5′ probes.
5. Two gene targeting experiments will be performed. If both experiments fail to generate successful targeting event then the investigator will be charged of the cost of materials used for the two experiments only.
6. All homologous recombined clones identified by Southern Blot will be stored at the TG/KO and will be available to the investigator upon request.
7. If expensive enzymes are to be used for Southern analysis, investigators will be responsible for charges in addition to the standard fees.
8. All positive ES clones that are stored at the TG/KO can only be transferred or thawed by written permission of the laboratory head only.
9. All embryonic stem cell related experiments must be in compliance with National Academy of Sciences guidelines for Embryonic Stem Cell Research.
10. It is agreed between the investigator and TG/KO that any publications arising from the gene targeting experiments performed by the TG/KO Shared Resource of The Cancer Institute of New Jersey will have appropriate acknowledgement of this service.

Gene targeting construct:	
SIGNATURES	
PI Signature:	Date:
Additional Comments:	

FOR OFFICE USE ONLY	
Received by:	Date received:
Service Start Date:	Service End Date:
Estimated Cost:	Actual Cost:
Reference # :	