

UBC's MAPS Makes CRISPR Mouse for National University of Singapore



Dr. Singaraja, PhD from the National University of Singapore contacted MAPS to make a *Cyp2c70* knockout mouse.

Cyp2c70 is responsible for converting the bile acid chenodeoxycholic acid (CDCA) to muricholic acid (MCA) in mice. By creating a *Cyp2c70* knockout mouse you essentially make a mouse model that more closely mimics humans who do not produce MCA.



Figure: Gel showing germline transmission of *Cyp2c70* deletion in N2 mice.

MAPS has established the strain, is ready to ship breeders to Singapore, and will cryopreserve it for safe keeping at UBC.

Dr. Singaraja wrote, "I chose UBC's MAPS to generate my knock-out mice after consultation with several academic and commercial mouse facilities. ... I will definitely use their services again without hesitation."

We look forward to working with you to further your research

The Mouse Animal Production Service (MAPS) at CMMT provides the research community with cost effective, state of the art technologies for the generation and maintenance of genetically modified mice. Directed by Dr. Elizabeth M. Simpson, the objective of MAPS is to advance discovery through mouse-based techniques.

SERVICES

- Age specific mice or embryos
- Complimentary project planning meeting
- Cryopreservation of sperm or embryos
- Custom Breeding
- Derivation of new ESC lines
- Embryonic stem cell culture
- CRISPR gRNA targeted mutations
- ESC microinjection
- ESC electroporation
- Germline competent ESCs
- ICR foster mothers
- *In-vitro* fertilization
- Mouse embryonic fibroblasts
- Pseudo pregnant recipients
- Surgical services
- Timed pregnancies
- Vasectomized males

CONTACT US

For more information on our services or to place an order, please contact us:
MAPS team
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<http://cmmt.ubc.ca/facilities-services/mouse-animal-production/>

For more information on other CMMT Core Facilities and Services please contact:
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