

Materials List for:

# An Oncogenic Hepatocyte-Induced Orthotopic Mouse Model of Hepatocellular Cancer Arising in the Setting of Hepatic Inflammation and Fibrosis.

Xiaoqiang Qi<sup>1,2,3</sup>, Emily Schepers<sup>\*1,2</sup>, Diego Avella<sup>1,2</sup>, Eric T. Kimchi<sup>1,2</sup>, Jussuf T. Kaifi<sup>1,2</sup>, Kevin F. Staveley-O'Carroll<sup>1,2</sup>, Guangfu Li<sup>1,2,3</sup>

<sup>1</sup>Department of Surgery, University of Missouri-Columbia

<sup>2</sup>Ellis Fischel Cancer Center, University of Missouri-Columbia

<sup>3</sup>Molecular Microbiology and Immunology, University of Missouri-Columbia

\*These authors contributed equally

Correspondence to: Kevin F. Staveley-O'Carroll at [ocarrollk@health.missouri.edu](mailto:ocarrollk@health.missouri.edu), Guangfu Li at [liguan@health.missouri.edu](mailto:liguan@health.missouri.edu)

URL: <https://www.jove.com/video/59368>

DOI: [doi:10.3791/59368](https://doi.org/10.3791/59368)

## Materials

Name	Company	Catalog Number	Comments
Anesthesia machine	VETEQUIP	IMPAC6	anesthesia machine for surgery
Butterfly needle	BD	8122963	Needle used for liver perfusion
C57BL/6 mice	Jackson Lab	000664	mice used in prototol
Carprofen	CRESCENT CHEMICAL	20402	carprofen for pain release
Cell Strainer	CORNING	REF 431751	Cell strainer, 70µm, for hepatocytes isolation
Centrifuge	Beckman Coulter	Allegra X-30R	centrifuge for cell isolation
Clips	Teleflex Medical	REF 523700	Titanium Clips for spleen
Microscope	Zeiss	Primovert	microscope for cell observation
Mtd2 mice	N/A		Gift from Dr. William A Held at roswell Park Cancer Institute in 2002, maintained in our lab
Needle	BD	REF 305109	BD precisionglide needle, 27G x 1/2 (0.4mm x 13mm)
Suture	ETHICON	J303H	coated VICRYL suture
SV40 T Ag antibody	Abcam	ab16879	anti-SV40 T-antigen antibody for IHC
Syringe	BD	REF 309626	1 mL TB syringe for cell injection
Trypan blue	SIGMA	T 8154	Trypan blue solution for cell viability test
Wound clips	Reflex	reflex9, Part. No. 201-1000	stainless steel wound clips for wound close