

Materials List for:

Patient-derived Orthotopic Xenograft Models for Human Urothelial Cell Carcinoma and Colorectal Cancer Tumor Growth and Spontaneous Metastasis

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URL: <https://www.jove.com/video/59223>

DOI: [doi:10.3791/59223](https://doi.org/10.3791/59223)

Materials

Name	Company	Catalog Number	Comments
Avidin-biotin-peroxidase	Vector Labs Inc	PK-6100	
Biotinylated secondary antibody	Vector Labs Inc	BA-1000	
Collagenase IV (1.5 mg/mL)	Worthington Biochemical Corporation	LS004189	
Deoxyribonuclease I (0.1 mg/mL)	Sigma	D4263	
D-Luciferin (150 mg/kg)	Perkin Elmer	122796	
Formalin (10% neutral buffered)	Leica	46129	
glutamine (2 nM)	Fisher Scientific	35050061	
Hair Removal Cream	Church & Dwight Co., Inc	1 (800) 248-8820	
Hanks Balanced Salt Solution (HBSS)	Fisher Scientific	SH30016.02	
Hyaluronidase (20 mg/mL)	Sigma	H3884	
Isoflurane	Henry Schein Animal Health	108333	
Luc/RFP-lentivirus	From our collaborators. See reference 13: Gills, J. et al. A patient-derived orthotopic xenograft model enabling human high-grade urothelial cell carcinoma of the bladder tumor implantation, growth, angiogenesis, and metastasis. <i>Oncotarget</i> . 9, 32718-32729, doi:10.18632/oncotarget.26024 (2018).		
McCoy's medium	Life Technologies	110862	
penicillin/streptomycin 100 mL (100 U/mL)	Fisher Scientific	15140-122	
RPMI-1640 Medium	American Type Culture Collection	110636	
Trypan Blue	Sigma	T6146	
Trypsin/EDTA	Life Technologies	15400-054	
Name	Company	Catalog Number	Comments
Gas			
100% Oxygen	Airgas Inc	OX USP200	
100% CO ₂	Airgas Inc	CD USPE	
Name	Company	Catalog Number	Comments
Mice			

6-8 week old NOD/SCID Mice (male)	Jackson Lab	001303	
6-8 week old NOD/SCID Mice (female)	Jackson Lab	001303	
Name	Company	Catalog Number	Comments
Immunohistochemistry			
Hematoxylin	Sigma	GHS232	
Ki-67 Rabbit Monoclonal Antibody	Thermo Scientific	RM-9106-S	
Name	Company	Catalog Number	Comments
Tools			
40 µm cell strainer	Fisher Scientific	08-771-1	
100 µm cell strainer	Fisher Scientific	08-771-19	
15 mL Conical Tube	Sarstedt	11799	
50 mL Conical tube	Sarstedt	15762	
150 mm Tissue Culture Dish	USA Scientific Inc	CC7682-3614	
96 Well plate	USA Scientific Inc	CC7682-7596	
Forceps	Symmetry Surgical Inc	06-0011	
Surgical scissors	Symmetry Surgical Inc	02-2011	
Name	Company	Catalog Number	Comments
Equipment			
5% CO ₂ humidified incubator	Thermo Scientific	3110	
Bioluminescent (BLI) Imaging Machine	Perkin Elmer	CLS136334	
BLI Imaging Machine Software	Perkin Elmer	CLS136334	
Centrifuge	Beckman	366830	
Deconvoluting Microscope	Intelligent Imaging Innovations	Marianas	
Deconvoluting Microscope Imaging Software	Intelligent Imaging Innovations	+1 (303) 607-9429 x1	
Digital caliper	Fowler Tools and Instruments	54-115-330	
Dissecting microscope	Precision Instruments LLC	(504) 228-0076	
Electrosurgical generator	ValleyLab	FORCE1C20	
Isoflurane Induction Chamber	Perkin Elmer	119038	
Microtome	American Optical Corporation	829	
Pipet Aid	Fisher Healthcare	13-681-15E	
Serological pipet (10 mL)	Sarstedt	86.1254.001	