

Materials List for:

Transfer of Mammary Gland-forming Ability Between Mammary Basal Epithelial Cells and Mammary Luminal Cells via Extracellular Vesicles/ Exosomes

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Materials

Name	Company	Catalog Number	Comments
MCDB 170	USBiological	M2162	
DMEM/F12	Thermo	1250062	
Optima L-100K ultracentrifuge	Beckman	393253	
SW28 Ti Rotor	Beckman	342204	
SW41 Rotor	Beckman	331306	
NANOSIGHT LM10	Malvern	NANOSIGHT LM10	for nanoparticle tracking analysis (NTA)
Optiprep	Sigma-Aldrich	D1556	60% (w/v) solution of iodixanol in water (sterile).
CD81 antibody	GeneTex	GTX101766	1:1,000 in 5% w/v nonfat dry milk, 1x TBS, 0.1% Tween 20 at 4 °C, overnight
CD9 antibody	GeneTex	GTX100912	1:1,000 in 5% w/v nonfat dry milk, 1x TBS, 0.1% Tween 20 at 4 °C, overnight
CD63 antibody	Abcam	Ab59479	1:1,000 in 5% w/v nonfat dry milk, 1x TBS, 0.1% Tween 20 at 4 °C, overnight
TSG101 antibody	GeneTex	GTX118736	1:1,000 in 5% w/v nonfat dry milk, 1x TBS, 0.1% Tween 20 at 4 °C, overnight
GAPDH	GeneTex	GTX100118	1:6,000 in 5% w/v nonfat dry milk, 1x TBS, 0.1% Tween 20 at 4 °C, overnight
CFSE (carboxyfluorescein succinimidyl diacetate ester)	Thermo	V12883	
FACSCalibur	BD Biosciences		fluorescence cell analyzer
collagenase Type IV	Thermo	17104019	
trypsin	Thermo	27250018	
ITS	Sigma-Aldrich	I3146	a mixture of recombinant human insulin, human transferrin, and sodium selenite
accutase	ebioscience	00-4555-56	a natural enzyme mixture with proteolytic and collagenolytic enzyme activity
dispase	STEMCELL	7913	5 mg/mL = 5 U/mL
anti-CD49f antibody	Biolegend	313611	1:50
anti-EpCAM antibody	Biolegend	118213	1:200

FACSAria	BD Biosciences		cell sorter
carmine alum	Sigma-Aldrich	C1022	
human mammary epithelial cells (HMLE cells, NAMECs)			gifts from Dr. Robert Weinberg
permount	Thermo Fisher Scientific	SP15-500	
sodium bicarbonate	Zymeset	BSB101	
EGF	Peptotech	AF-100-015	
Hydrocortisone	Sigma-Aldrich	SI-H0888	
Insulin	Sigma-Aldrich	SI-I9278	
BPE (bovine pituitary extract)	Hammod Cell Tech	1078-NZ	
GW627368X	Cayman	10009162	
15 cm culture dish	Falcon	353025	
table-top centrifuge	Eppendorf	Centrifuge 3415R	
ultracentrifuge tube	Beckman	344058	
PBS (Phosphate-buffered saline)	Corning	46-013-CM	
BCA Protein Assay	Thermo Fisher Scientific	23228	
Transmission Electron Microscopy	Hitachi	HT7700	
gelatin	STEMCELL	7903	
10 cm culture dish	Falcon	353003	
6-well culture dish	Corning	3516	
female C57BL/6 mice	NLAC (National Laboratory Animal Center)		
FBS (Fetal Bovine Serum)	BioWest	S01520	
gentamycin	Thermo Fisher Scientific	15710072	
Pen/Strep	Corning	30-002-CI	
DNase I	5PRIMER	2500120	
isoflurane	Halocarbon	NPC12164-002-25	
formaldehyde	MACRON	H121-08	
EtOH (Ethanol)	J.T. Baker	800605	
glacial acetic acid	Panreac	131008.1611	
aluminum potassium sulfate	Sigma-Aldrich	12625	
Xylene	Leica	3803665	
0.22 µm membranes	Merck Millipore	Millex-GP	
AUTOCLIP Wound Clips, 9 mm	BD Biosciences	427631	
AUTOCLIP Wound Clip Applier	BD Biosciences	427630	
CellMask™ Deep Red	Thermo Fisher Scientific	C10046	plasma membrane stain