

Materials List for

Isolation, Culture, and Genetic Engineering of Mammalian Primary Pigment Epithelial Cells for Non-Viral Gene Therapy

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jove.com/video/62145

Materials

Name	Company	Catalog Number	Comments
12-well plates	Corning	353043	
24-well plates	Corning	353047	
48-well plates	ThermoFisher Scientific	150687	
6-well plate	Greiner	7657160	
Betadine	Mundipharma		
Bonn micro forceps flat			
Colibri forceps (sterile)			
CytoTox-Glo Cytotoxicity Assay	Promega	G9291	
DMEM/Ham's F12	Sigma-Aldrich	D8062	
Drape (sterile)	Mölnlycke Health Care	800530	
Electroporation buffer 3P.14	3P Pharmaceutical		
FBS	Brunschwig	P40-37500	
Forceps (different size) (sterile)			
Gauze compress	PROMEDICAL AG	25403	
NaCl (0.9%)	Laboratorium Dr. Bichsel AG	1000090	
Needle (18G)	Terumo	TER-NN1838R	
Neon Transfection kit 10 µL	ThermoFisher Scientific	MPK1096	
Neon Transfection System	ThermoFisher Scientific	MPK5000S	
Neubauer chamber	Marienfeld-superior	640010	
Pasteur pipette (fire-polish)	Witeg	4100150	
PBS 1X	Sigma-Aldrich	D8537	
Penicillin/Streptomycin	Sigma-Aldrich	P0781-100	

Pentobarbital (Thiopental Inresa)	Ospedalia AG	31408025	
Petri dish	ThermoFisher Scientific	150288	
pFAR4-PEDF			
pFAR4-SB100X			
pFAR4-Venus			Pastor et al., 2018. Kindly provided by Prof. Scherman and Prof. Marie
pSB100X (250 ng/ μ L)			Mátés et al., 2009. Provide by Prof. Izsvak
pT2-CAGGS-Venus			Johnen et al., 2012
pT2-CMV-GMCSF-His plasmid DNA (250 ng/ μ L)			Cloned in our lab
pT2-CMV-PEDF-His plasmid DNA (250 ng/ μ L)			Pastor et al., 2018
scarpel no. 10	Swann-Morton	501	
scarpel no. 11	Swann-Morton	503	
Sharp-sharp tip curved Extra Fine Bonn Scissors (sterile)			
Sharp-sharp tip straight Extra Fine Bonn Scissors (sterile)			
Tali Image-Based Cytometer	ThermoFisher Scientific	T10796	
Trypsin 0.25%	ThermoFisher Scientific	25050014	
Trypsin 5%/EDTA 2%	Sigma-Aldrich	T4174	
Vannas spring scissors curved (sterile)			