

Isolation of Murine Retinal Endothelial Cells for Next-Generation Sequencing

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Materials

Name	Company	Catalog Number	Comments
2 mL Eppendorf safe-lock tubes	USA Scientific	4036-3352	
5 ml Falcon Test Tubes with Cell Strainer Snap Cap	Corning	352235	
60 mm Non TC-treated Culture Dish	Corning	430589	
APC Rat Anti-Mouse CD31	BD Biosciences	551262	
APC Rat IgG2a κ Isotype Control	BD Biosciences	553932	
BD FACSCorus Software	BD Biosciences	FACSCORUS	
BD FACSMelody Cell Sorter	BD Biosciences	FACSMELODY	
Collagenase Type II	Sigma-Aldrich	234115	
Costar 48-well Clear TC-treated Multiple Well Plates, Individually Wrapped, Sterile	Corning	3548	
D-Glucose	Gibco	A2494001	
Disposable Graduated Transfer Pipettes	Fisher Scientific	12-711-9AM	
Dissecting Pan Wax	Carolina	629100	
Dissection scissors	Fine Science Tools	14085-08	
Dissection Stereo Microscope M165 FC	Leica	M165FC	
Dulbecco's Modified Eagle Medium (DMEM)	Gibco	11965-052	
Dulbecco's Phosphate Buffered Saline (PBS)	Gibco	14190144	
Eppendorf Flex-Tubes Microcentrifuge Tubes 1.5 mL	Sigma-Aldrich	22364120	
Fetal Bovine Serum (FBS)	Gemini Bio	100-106	
Fine dissection forceps	Fine Science Tools	11250-00	
Hank's Buffered Salt Solution (HBSS)	Gibco	14175095	
HEPES (1M)	Gibco	15630130	

iScript cDNA Synthesis Kit	Bio-Rad	1708890	
Isoflurane, USP	Covetrus	11695067772	
Isotemp General Purpose Deluxe Water Bath	Fisher Scientific	FSGPD20	
Primer: ActB_Forward: 5'-agagggaatcgtgcgtgac -3'	Integrated DNA Technologies	N/A	
Primer: ActB_Reverse: 5'-caatagtgatgacgtggccgt -3'	Integrated DNA Technologies	N/A	
Primer: CD31_Forward: 5'-gagcccaatcacgtttcagttt -3'	Integrated DNA Technologies	N/A	
Primer: CD31_Reverse: 5'-tcctcctgctcttctgtagct -3'	Integrated DNA Technologies	N/A	
Primer: CD45_Forward: 5'-gggtgttctgtgcctgtt -3'	Integrated DNA Technologies	N/A	
Primer: CD45_Reverse: 5'-ctggacggacacagtttagca -3'	Integrated DNA Technologies	N/A	
Primer: VE-Cadherin_Forward: 5'-tcctctgcatcctcactatcaca -3'	Integrated DNA Technologies	N/A	
Primer: VE-Cadherin_Reverse: 5'-gtaagtgaccaactgctcgtgaat -3'	Integrated DNA Technologies	N/A	
Propidium iodide	Sigma-Aldrich	P4864	
RNeasy Plus Mini Kit	Qiagen	74134	
Sorvall Legend Micro 21R Centrifuge, Refrigerated	ThermoFisher	75002477	
SYBR-Green iTaq Universal SYBR Green Supermix	Bio-Rad	172-5120	
Trypan Blue Solution	ThermoFisher	15250061	
V450 Rat Anti-Mouse CD45	BD Biosciences	560501	
V450 Rat IgG2b, κ Isotype Control	BD Biosciences	560457	