

Materials List for:

Differentiation, Maintenance, and Analysis of Human Retinal Pigment Epithelium Cells: A Disease-in-a-dish Model for *BEST1* Mutations

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Materials

Name	Company	Catalog Number	Comments
Knock-Out (KO) DMEM	ThermoFisher	10829018	
KO serum replacement	ThermoFisher	10829028	
Nonessential amino acids	ThermoFisher	11140050	
Glutamine	ThermoFisher	35050061	
Penicillin-streptomycin	ThermoFisher	10378016	
Nicotinamide	Sigma-Aldrich	N0636	
Human activin-A	PeptoTech	120-14	
MEM (a modification)	Sigma-Aldrich	M4526	
Fetal Bovine Serum	VWR	97068-085	
N1 supplement	Sigma-Aldrich	N6530	
Glutamine-penicillin-streptomycin	Sigma-Aldrich	G1146	
Nonessential amino acids	Sigma-Aldrich	M7156	
Taurine	Sigma-Aldrich	T0625	
Hydrocortisone	Sigma-Aldrich	H0386	
Triiodo-thyronin	Sigma-Aldrich	T5516	
mTeSR-1 medium	Stemcell Technologies	5850	
Matrigel	Corning	356230	
Collagenase	Gibco	17104019	
Trypsin	VWR	45000-664	
M-PER mammalian protein extraction reagent	Pierce	78501	
proteinase inhibitor cocktail	Sigma-Aldrich	4693159001	
RPE65 antibody	Novus Biologicals	NB100-355	
CRALBP antibody	Abcam	ab15051	
BEST1 antibody	Novus Biologicals	NB300-164	
Beta Actin antibody	ThermoFisher	MA5-15739	
Alexa Fluor 488-conjugated donkey anti-mouse IgG	ThermoFisher	A-21202	
Goat anti-mouse IgG	ThermoFisher	SA5-35521	
Goat anti-Rabbit IgG	LI-COR Biosciences	926-68071	
Hoechst 33342	ThermoFisher	62249	
HEKA EPC10 patch clamp amplifier	Warner Instruments	895000	
Patchmaster	Warner Instruments	895040	