

Materials List for:

Modeling Osteosarcoma Using Li-Fraumeni Syndrome Patient-derived Induced Pluripotent Stem Cells

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Materials

Name	Company	Catalog Number	Comments
Plastic ware			
100 mm Dish	Corning	430107	
60 mm Dish	Corning	430166	
6-well Plate	Falcon	353046	
12-well Plate	Falcon	353043	
48-well Plate	Falcon	353078	
1 mL Pipet Tip	USA Scientific	1111-2721	
200 µL Pipet Tip	USA Scientific	1111-0706	
10 µL Pipet Tip	USA Scientific	1111-3700	
5 mL Serological Pipette	SARSTEDT	86.1253.001	
10 mL Serological Pipette	SARSTEDT	86.1254.001	
25 mL Serological Pipette	SARSTEDT	86.1685.001	
50 mL Tube, PP	SARSTEDT	62.547.100	
15 mL Tube, PP	SARSTEDT	62.554.100	
Culture materials and Reagents			
CytoTune- iPS 2.0 Sendai Reprogramming Kit	Invitrogen	A16517	Commercial Sendai virus reprogramming kit
Corning hESC-Qualified Matrix	Corning	354277	Basement membrane matrix
CF1 MEFs, irradiated	ThermoFisher	A34180	
DMEM	Sigma-Aldrich	D5671	
DMEM/F12	Corning	10-090-CV	
αMEM	Corning	10-022-CV	
StemMACS iPS-Brew XF	Miltenyi Biotec	130-104-368	Commercial iPSC medium
KnockOut DMEM/F-12	ThermoFisher	12660012	
FBS Opti-Gold	GenDEPOT	F0900-050	
KnockOut Serum Replacement	ThermoFisher	A3181502	
Penicillin-Streptomycin	Sigma-Aldrich	P4333	
MEM Nonessential Amino Acids	Corning	25-025-CI	
L-Glutamine Solution	Sigma-Aldrich	G7513	

2-Mercaptoethanol	Sigma-Aldrich	M3148	
Human FGF-basic (bFGF)	PEPROTECH	100-18B	
Recombinant Human PDGF-AB	PEPROTECH	100-00AB	
β -Glycerophosphate	Sigma-Aldrich	G9422	
Dexamethasone	Sigma-Aldrich	A4902	
Ascorbic Acid	Sigma-Aldrich	A5960	
Dulbecco's Phosphate-Buffered Saline, 1x (DPBS)	Corning	21-031-CV	
StemMACS Passaging Solution XF	Miltenyi Biotec	130-104-688	Commercial passaging solution
Accutase Cell Detachment Solution	Corning	25-058-CI	Cell detachment solution
Thiazovivin (ROCK Inhibitor)	Calbiochem	420220	
0.25% Trypsin-EDTA Solution	Sigma-Aldrich	T4049	
Collagenase, Type II	ThermoFisher	17101015	
Human NANOG Antibody	R&D System	AF1997	
OCT4 Antibody (H-134)	Santa Cruz	sc-9081	
Human/Mouse SSEA-4 PE-conjugated Antibody	R&D System	FAB1435P	
Alexa Fluor 555 Mouse Anti-Human TRA-1-81 Antigen	DB Biosciences	560123	
Alexa Fluor 488 Donkey Anti-Goat IgG (H+L)	Jackson ImmunoResearch	705-545-003	
Alexa Fluor 488 Goat Anti-Rabbit IgG (H+L)	Jackson ImmunoResearch	111-545-144	
PE Mouse Anti-Human CD105	eBioscience	12-1057-42	
FITC Mouse Anti-Human CD44	DB Biosciences	555478	
PE Mouse Anti-Human CD73	DB Biosciences	550257	
PE Mouse Anti-Human CD166	DB Biosciences	560903	
FITC Mouse Anti-Human CD24	DB Biosciences	555427	
Donkey Serum	Jackson ImmunoResearch	017-000-121	
Goat Serum	Jackson ImmunoResearch	005-000-121	
Alkaline Phosphatase Staining Kit II	Stemgent	00-0055	
Alizarin Red S	Sigma-Aldrich	A5533	
TRIzol Reagent	ThermoFisher	15596018	
Chloroform	ThermoFisher	C298-500	
2-Propanol	ThermoFisher	A416-4	
Ethanol, Absolute, Molecular Biology Grade	ThermoFisher	BP28184	
DNase I, RNase-free (1 U/ μ L)	ThermoFisher	EN0521	
iScript cDNA Synthesis Kit	BioRad	1708891BUN	
iQ SYBR Green Supermix	BioRad	1708884	
Matrigel Matrix High Concentration (HC), Phenol-Red Free	Corning	354262	
1 mL Slip Tip Syringe, 26 Gauge x 5/8 Inch	DB Biosciences	309597	