

Materials List for

# Generation and Expansion of Human Cardiomyocytes from Patient Peripheral Blood Mononuclear Cells

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## Materials

Name	Company	Catalog Number	Comments
ABI 7300 Fast Real-Time PCR System	Thermo Fisher Scientific		
Axon Axopatch 200B Microelectrode Amplifier	Molecular Devices		Microelectrode Amplifier
B27 supplement	Thermo Fisher Scientific	17504044	
B27 supplement minus insulin	Thermo Fisher Scientific	A1895601	
BD Cytofix/Cytoperm Fixation/Permeabilization Kit	BD Biosciences	554714	Fixation/Permeabilization solution, Perm/Wash buffer
BD Vacutainer CPT tube	BD Biosciences	362753	Blood cell separation tube
CHIR99021	Selleck Chemicals	S2924	
CytoTune-iPS 2.0 Sendai Reprogramming Kit	Thermo Fisher Scientific	A16517	Sendai virus reprogramming kit
Digidata 1200B	Axon Instruments		Acquisition board
Direct-zol RNA Miniprep kit	Zymo Research	R2050	RNA extraction kit
DMEM/F12	Thermo Fisher Scientific	11330057	
Essential 8 medium	Thermo Fisher Scientific	A1517001	E8 media for iPSC culture
GlutaMAX supplement	Thermo Fisher Scientific	35050061	L-glutamine alternative
Growth factor reduced Matrigel	Corning	356231	Basement membrane matrix
iScript cDNA Synthesis Kit	Bio-Rad	1708891	cDNA synthesis
IWR-1-endo	Selleck Chemicals	S7086	
KnockOut Serum Replacement (KSR)	Thermo Fisher Scientific	10828028	
pCLAMP 7.0	Molecular Devices		Electrophysiology data acquisition & analysis software
Recombinant human EPO	Thermo Fisher Scientific	PHC9631	
Recombinant human FLT3	Thermo Fisher Scientific	PHC9414	
Recombinant human IL3	Peptotech	200-03	
Recombinant human IL6	Thermo Fisher Scientific	PHC0065	

Recombinant human SCF	Peprotech	300-07	
RPMI 1640 medium	Thermo Fisher Scientific	11875093	
RPMI 1640 medium, no glucose	Thermo Fisher Scientific	11879020	
SlowFade Gold Antifade Mountant	Thermo Fisher Scientific	S36936	Mounting media
StemPro-34 SFM	Thermo Fisher Scientific	10639011	PBMC culture media
TaqMan Fast Advanced Master Mix	Thermo Fisher Scientific	4444964	qPCR master mix
TrypLE Select Enzyme 10x, no phenol red	Thermo Fisher Scientific	A1217703	CM dissociation solution
UltraPure 0.5 M EDTA	Thermo Fisher Scientific	15575020	iPSC dissociation solution
Y-27632 2HCl	Selleck Chemicals	S1049	