

Materials List for

Ultrasound-guided Induced Pluripotent Stem Cell-derived Cardiomyocyte Implantation in Myocardial Infarcted Mice

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jove.com/video/63647

Materials

Name	Company	Catalog Number	Comments
Antibody			
Cardiac troponin T	Abcam	ab8295	
Donkey Anti-Mouse IgG H&L (Alexa Fluor 488)	Abcam	ab150105	
Donkey Anti-Mouse IgG H&L (Alexa Fluor 555)	Abcam	ab150110	
Donkey Anti-Rabbit IgG H&L (Alexa Fluor 488)	Abcam	ab150073	
Donkey Anti-Rabbit IgG H&L (Alexa Fluor 555)	Abcam	ab150062	
Human cardiac troponin T	Abcam	ab91605	
Isolectin B4	Vector	FL-1201	
Sarcomeric alpha actinin	Abcam	ab9465	
Wheat germ agglutinin	Thermo Fisher Scientific	W11261	
Reagent			
Accutase	Thermo Fisher Scientific	00-4555-56	
B27 Supplement(minus insulin)	Thermo Fisher Scientific	A1895601	
B27 Supplement(serum free)	Thermo Fisher Scientific	17-504-044	
Bouin's solution	Thermo Fisher Scientific	SDHT10132	
CHIR99021	Selleck	CT99021	
cyclosporin A	Medchemexpress	HY-B0579	
DIRECT RED	Sigma-Aldrich	365548-25G	
DMEM/F12	Thermo Fisher Scientific	11320033	
DNeasy Blood & Tissue Kit	Qiagen	69504	
FAST GREEN FCF	Sigma-Aldrich	F7252-5G	
Glucose-free RPMI 1640	Thermo Fisher Scientific	11879020	
IWR1	Selleck	S7086	
lactic acid	Sigma-Aldrich	L6661	

Matrigel	BD Biosciences	BD356234	
mTeSR1	Stem Cell Technologies	72562	
O.C.T. Compound	SAKURA	4583	
Paraformaldehyde	Sigma-Aldrich	158127	
PowerUP SYBR Green MasterMix kit	Thermo Fisher Scientific	A25742	
RPMI1640	Thermo Fisher Scientific	11875119	
STEMdif Cardiomyocyte Freezing Medium/STEMdif	Stem Cell Technologies	5030	
STEMdif Cardiomyocyte Support Medium	Stem Cell Technologies	5027	
Triton X-100	Sigma-Aldrich	T8787	
ultrasound coupling agent	CARENT	22396269389	
Y-27632	Selleck	S6390	
Equipment and Supplies			
Applied Biosystems	Thermo Fisher Scientific	7500 Real-Time PCR	
cryostat	Leica	CM1950	
fluorescence microscope	Olympus	IX83	
fine anatomical scissors	Fine Science Tools	15000-08	
fine dissecting forceps	Fine Science Tools	11255-20	
Micro syringe	Hamilton	7633	
Small animal anesthesia machine	MATRIX	VMR	
Ultra-high resolution small animal ultrasound imaging system	VisualSonics	Vevo 2100	
Software			
Statistical Product and Service Solutions	IBM	21	
Image J	NIH	1.48	
Human mitochondrial DNA primers			
the forward primer sequence	CCGCTACCATAATCATCGCTAT		
the reverse primer sequence	TGCTAATACAATGCCAGTCAGG		