

Materials List for:

Improved Generation of Induced Cardiomyocytes Using a Polycistronic Construct Expressing Optimal Ratio of Gata4, Mef2c and Tbx5

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URL: <https://www.jove.com/video/53426>

DOI: [doi:10.3791/53426](https://doi.org/10.3791/53426)

Materials

Name	Company	Catalog Number	Comments
anti-cardiac troponin T	Thermo Scientific	MS-295-PO	1:200 for FACS and 1:400 for ICC
anti-GFP	Life Technologies	A11122	1:500 for both FACS and ICC
anti- aActinin	Sigma-Aldrich	A7811	1:500 for both FACS and ICC
anti-Connexin43	Sigma-Aldrich	C6219	1:500 for ICC
anit-Mef2c	Abcam	ab64644	1:1,000 for ICC
anti-Gata4	Santa Cruz Biotechnology	sc-1237	1:200 for ICC
anti-Tbx5	Santa Cruz Biotechnology	sc-17866	1:200 for ICC
Alexa Fluor 488–conjugated donkey anti-rabbit IgG	Jackson ImmunoResearch Inc	711-545-152	1:500 for both FACS and ICC
Alexa Fluor 647–conjugated donkey anti-mouse IgG	Jackson ImmunoResearch Inc	715-605-150	1:500 for both FACS and ICC
Cytofix/Cytoperm kit for intracellular staining	BD Biosciences	554722	
Rhod-3 Calcium Imaging Kit	Life Technologies	R10145	
Thy1.2 microbeads	Miltenyi Biotec	130-049-101	
Vectashield solution with DAPI	Vector labs	H-1500	
FBS	Sigma-Aldrich	F-2442	
Trypsin-EDTA (0.05%)	Corning	25-052	
PRMI1640 medium	Life Technologies	11875-093	
B27 supplement	Life Technologies	17504-044	
IMDM	Life Technologies	12440-053	
Opti-MEM Reduced Serum Medium	Life Technologies	31985-070	
M199 medium	Life Technologies	10-060	
DMEM, high glucose	Life Technologies	10-013	
Penicillin-streptomycin	Corning	30-002	
Non-essential amino acids	Life Technologies	11130-050	
Lipofectamine 2000	Life Technologies	11668500	
blasticidin	Life Technologies	A11139-03	
puromycin	Life Technologies	A11138-03	
Collagenase II	Worthington	LS004176	
polybrene	Millipore	TR-1003-G	
Triton X-100	Fisher	BP151-100	
CaCl ₂	Sigma-Aldrich	C7902	
HEPES	Sigma-Aldrich	H4034	

NaCl	Sigma-Aldrich	BP358-212	
KCl	Sigma-Aldrich	PX1405	
Na ₂ HPO ₄	Sigma-Aldrich	S7907	
Glucose	Sigma-Aldrich	G6152	
Bovine serum albumin	Fisher	9048-46-8	
paraformaldehyde	EMS	15714	
Retrovirus Precipitation Solution	ALSTEM	VC-200	
0.4% Trypan blue solution	Sigma-Aldrich	T8154	
gelatin	Sigma-Aldrich	G1393	
Dulbecco's PBS without CaCl ₂ and MgCl ₂ (D-PBS, 1x)	Sigma-Aldrich	D8537	
HBSS (Hanks Balanced Salt Solution)	Corning	21022	
LS column	Miltenyi Biotec	130-042-401	
0.45 µm cellulose acetate filter	Thermo Scientific	190-2545	
24-well plates	Corning	3524	
10 cm Tissue culture dishes	Thermo Scientific	172958	
60 mm center well culture dish	Corning	3260	
96 Well Clear V-Bottom 2 ml Polypropylene Deep Well Plate	Denville Scientific	P9639	
Polystyrene round-bottom tubes with cell-strainer cap	BD Biosciences	352235	
Centrifuge	Eppendorf	5810R	
Vortexer MINI	VWR	58816-121	
EVOS FL Auto Cell Imaging System	Life Technologies	AMAFD1000	
MACS MultiStand	Miltenyi Biotec	130-042-303	
MidiMACS Separator	Miltenyi Biotec	130-042-302	
Round glass cover slip	Electron Microscopy Sciences	72195-15	