

Materials List for:

Isolation, Characterization and MicroRNA-based Genetic Modification of Human Dental Follicle Stem Cells

Paula Müller^{*1,2}, Katharina Eklat^{*3}, Anne Brosemann³, Anne Köntges³, Robert David^{1,2}, Hermann Lang³

¹Reference and Translation Center for Cardiac Stem Cell Therapy (RTC), Department of Cardiac Surgery, Rostock University Medical Center

²Department Life, Light and Matter of the Interdisciplinary Faculty at Rostock University

³Department of Operative Dentistry and Periodontology, Rostock University Medical Center

*These authors contributed equally

Correspondence to: Robert David at robert.david@med.uni-rostock.de

URL: <https://www.jove.com/video/58089>

DOI: [doi:10.3791/58089](https://doi.org/10.3791/58089)

Materials

Name	Company	Catalog Number	Comments
Mouse anti Human CD105 Antibody: Alexa Fluor 488	Bio-Rad	MCA1557A488	Clone SN6, monoclonal
Mouse IgG1 Negative Control Antibody: Alexa Fluor 488	Bio-Rad	MCA928A488	monoclonal
APC Mouse Anti-Human CD29 Antibody	BD Biosciences	559883	Clone MAR4, monoclonal
APC Mouse IgG1, κ Isotype Control Antibody	BD Biosciences	555751	Clone MOPC-21, monoclonal
PE Mouse Anti-Human CD73 Antibody	BD Biosciences	550257	Clone AD2, monoclonal
PE Mouse IgG1, κ Isotype Control Antibody	BD Biosciences	555749	Clone MOPC-21, monoclonal
PE-Cy7 Mouse Anti-Human CD117 Antibody	BD Biosciences	339217	Clone 104D2, monoclonal
PE-Cy7 Mouse IgG1, κ Isotype Control Antibody	BD Biosciences	557872	Clone MOPC-21, monoclonal
PerCP-Cy5.5 Mouse Anti-Human CD44 Antibody	BD Biosciences	560531	Clone G44-26, monoclonal
PerCP-Cy5.5 Mouse IgG2b, κ Isotype Control Antibody	BD Biosciences	558304	Clone 27-35, monoclonal
PerCP-Cy5.5 Mouse Anti-Human CD90 Antibody	BD Biosciences	561557	Clone 5E10, monoclonal
PerCP-Cy5.5 Mouse IgG1, κ Isotype Control Antibody	BD Biosciences	55095	Clone MOPC-21, monoclonal
V500 Mouse Anti-Human CD45 Antibody	BD Biosciences	560777	Clone HI30, monoclonal
V500 Mouse IgG1, κ Isotype Control Antibody	BD Biosciences	560787	Clone X40, monoclonal
FcR Blocking Reagent, human	Miltenyi Biotec	130-059-901	
UltraPure EDTA	Thermo Fisher Scientific	15575-020	0.5M, pH 8.0
Steritop	Merck Millipore	SCGPT05RE	0.22 μm, radio-sterilized, polyethersulfone
BSA	Sigma-Aldrich	A7906	
PFA	Merck Millipore	1040051000	
Human Mesenchymal Stem Cell Functional Identification Kit	R&D Systems	SC006	

RNase decontamination solution; RNaseZap RNase Decontamination Solution	Thermo Fisher Scientific	AM9780	
Cy3-labelled precursor miR; Cy3 Dye-Labeled Pre-miR Negative Control #1	Thermo Fisher Scientific	AM17120	5 nmol
Pre-miR miRNA Precursor Negative Control #1	Thermo Fisher Scientific	AM17110	5 nmol
Cationic lipid-based transfection reagent; Lipofectamine 2000 Transfection Reagent	Thermo Fisher Scientific	11668019	
Reduced serum medium; Opti-MEM I Reduced Serum Medium	Thermo Fisher Scientific	31985070	
Donkey anti-Goat IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 488	Thermo Fisher Scientific	A-11055	polyclonal
Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 488	Thermo Fisher Scientific	A-21202	polyclonal
Mounting medium; Fluoroshield with DAPI	Sigma-Aldrich	F6057-20ML	histology mounting medium
ELYRA PS.1 LSM 780 confocal microscope	Zeiss		
BD FACS LSRII flow cytometer	BD Biosciences		
BD FACSDiva Software 6.1.2	BD Biosciences		
ZEN2011 software	Zeiss		
Trypsin/EDTA solution (0.05%/0.02%)	Biochrom	L2143	in PBS, w/o: Ca ²⁺ , Mg ²⁺
Amine reactive dye; LIVE/DEAD™ Fixable Near-IR Dead Cell Stain Kit	Thermo Fisher Scientific	L10119	
PBS (1x)	Thermo Fisher Scientific	10010023	pH: 7.4; w/o: Ca and Mg
P-S-G (100x)	Thermo Fisher Scientific	10378016	
Basal medium; Dulbecco's Modified Eagle Medium/Nutrient Mixture F-12	Thermo Fisher Scientific	11039021	
Antibiotic, ZellShield	Biochrom	W 13-0050	
FBS	Thermo Fisher Scientific	10500064	
Collagenase type I	Thermo Fisher Scientific	17100017	
Dispase II	Thermo Fisher Scientific	17105041	
Filter, Sterifix syringe filter 0.2 µm	Braun	4099206	
50 mL conical centrifuge tube	Sarstedt	62,547,254	
15 mL conical centrifuge tube	Sarstedt	62,554,502	
Cell culture flask 75 cm ²	Sarstedt	833,910,002	
Cell culture flask, 25 cm ²	Sarstedt	833,911,002	
Freezing medium, Biofreeze	Biochrom	F 2270	
Cryotubes	Thermo Fisher Scientific	377267	1.8 mL
Trypan blue solution	Sigma-Aldrich	T8154	0.4 %
Counting chamber	Paul Marienfeld		
Local anesthetic, Xylocitin (lidocaine hydrochloride) 2% with epinephrine (adrenaline) 0.001%	Mibe		
NaCl solution	Braun		0.9 %

Vicryl satures, Vicryl rapide	Ethicon		3 - 0
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