

Materials List for:

# Visualization of Cell Cycle Variations and Determination of Nucleation in Postnatal Cardiomyocytes

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## Materials

Name	Company	Catalog Number	Comments
10 cm Petri dish	Sarstedt	821472	
100 µm cell strainer	Becton Dickinson GmbH/Falcon	352360	
2,3-Butanedione monoxime (BDM)	Sigma-Aldrich	B0753	
G20x1 ½ injection cannula, Sterican	Braun, Melsungen	4657519	
20 gauge needle	Becton Dickinson GmbH	301300	
24-well plates	Becton Dickinson GmbH/Falcon	353047	
2-Methyl-butane	Carl Roth GmbH + Co. KG	3927.1	
37% formaldehyde solution	AppliChem GmbH	A0936,1000	
3-way stopcock	B. Braun Medical Inc.	16494C	
50 mL syringe	B. Braun Medical Inc.	8728810F	
70% ethanol	Otto Fischar GmbH	27669	
Alexa-Fluor-conjugated secondary antibody	Jackson ImmunoResearch	115-605-205	
Alpha-Aktinin EA-53, Mouse IgG	Sigma-Aldrich, Steinheim	A7811	
CaCl <sub>2</sub>	Sigma-Aldrich	C4901	
Cell Culture Microplate, 96 Well, Half Area	Greiner bio-one	675986	
Collagenase B	Roche	11088815001	
confocal microscope Eclipse Ti-E	Nikon		
cryostat CM 3050S	Leica		
donkey serum	Jackson Immuno Research, Suffolk, GB	017-000-121	
Dulbecco's Phosphate Buffered Saline	Sigma-Aldrich	D8537	
EDTA	Sigma-Aldrich	E4884	
fetal calf serum	PromoCell, Heidelberg		
Formaldehyde solution (4%)	PanReac AppliChem	A3697	
Gelatine from porcine skin, Type A	Sigma-Aldrich, Steinheim	G2500	
glass coverslips	VWR	631-0146	
Glucose	Sigma-Aldrich	G7021	
Heidberger extension tube	IMPROMEDIFORM GmbH	MF 1833	
Heparin-Natrium	Ratiopharm	5394.02.00	
HEPES	Sigma-Aldrich	H3375	
HistoBond microscope slides	Marienfeld	0810000	

Hoechst 33342 (1 mg/mL)	Sigma Aldrich, Taufkirchen	B2261	
Insulin syringe	Becton Dickinson GmbH	300334	
Iscove's ModifiedDulbecco's Medium (IMDM)	Gibco/Life Technologies, Darmstadt	21980-032	
KCl	Sigma-Aldrich	P9333	
Laminin	Corning	354221	
Laser Scanning Mikroskop Eclipse Ti	Nikoninstruments, Düsseldorf		
Lipofectamine RNAiMAX	Invitrogen/Life Technologies, Darmstadt	13778075	
Mouse IgG Cy5 (donkey)	Jackson ImmunoResearch	715-175-151	
MgCl <sub>2</sub>	Sigma-Aldrich	M8266	
microcentrifuge tube	Sarstedt	72690	
Mini shaker	VWR	12620-940	
mirVana miRNA mimic, hsa-miR199a-3p	Ambion/Thermo Fischer Scientific	4464066	
Biopsy Mold	Sakura Finetek/ VWR	4565	
M-slide 8-well ibiTreat	ibidi	80826	
NaCl	Sigma-Aldrich	S9888	
NaOH	Merck Millipore	567530	
negative control(scrambled RNA)	Ambion/Thermo Fischer Scientific	AM4611	
Neonatal Heart Dissociation Kit	Miltenyi Biotech, Bergisch Gladbach	130-098-373	
NIS Elements AR 4.12.01-4.30.02-64bit	Nikoninstruments, Düsseldorf		
Non essential amino acids, NEAA	Gibco/Life Technologies, Darmstad	11140-035	
Opti-MEM, Reduced Serum Medium	Gibco	51985-026	
P21-siRNA	Ambion/Thermo Fischer Scientific	4390771	
P27-siRNA	Ambion/Thermo Fischer Scientific	4390771	
Penicillin/Streptomycin	Gibco/Life Technologies, Darmstadt	15140-122	
Phosphate buffered saline (PBS)	Sigma-Aldrich, Steinheim	14190-094	
Polyvinyl alcohol mounting medium with DABCO®, antifading	Sigma-Aldrich	10981	
RNase A	Qiagen	1007885	
RNaseZap	Invitrogen/Life Technologies, Darmstadt	AM9780	
sample containers	Vitlab	80731	
Serological pipette	Greiner	607180	
software NIS Elements	Nikon		
Sucrose	Sigma-Aldrich	S0389	
Tissue-Tek O.C.T. Compound	Sakura Finetek/ VWR	25608-930	
ToPro3 iodide (642/661)	Molecular probes/ThermoFisher Scientific	T3605	
Tris	Sigma-Aldrich	T1503	
Triton X	Fluka	93418	
Triton X-100	Fluka	93418	
Trypsin	Sigma-Aldrich	T1426	

Wheat germ agglutinin (WGA) Fluorescein labeled	Vector Laboratories	VEC-FL-1021-5	
$\alpha$ -actinin antibody	Sigma-Aldrich	A7811	
$\beta$ -Mercaptoethanol	Sigma-Aldrich, Steinheim	M3148	