

Materials List for:

# Induction of Mesenchymal-Epithelial Transitions in Sarcoma Cells

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URL: <https://www.jove.com/video/55520>

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## Materials

Name	Company	Catalog Number	Comments
Countess automated counter	Life technologies	AMQAX1000	
Countess cell counting chamber slides	Invitrogen	C10283	
SimpliAmp Thermal Cycler	Thermo Fisher	A24811	
Odyssey Fc	LI-COR Inc		
ViiA7 Real Time PCR System	Thermo Fisher	4453536	
PCR microplate	Corning	321-29-051	
KAPA SYBR Fast Universal qPCR Kit	KAPA Biosystems	KK4602	
Starting Block (PBS) Blocking Buffer	Thermo Fisher	37538	BSA-based blocking buffer
Agarose General Purpose LE	Genesee Scientific	20-102	
10x Tris/Glycine/SDS Buffer	Bio-Rad Laboratories Inc	161-0732	Running buffer
10x Tris/Glycine Buffer	Bio-Rad Laboratories Inc	161-0734	Transfer buffer
RIPA Buffer	Sigma Life Sciences	SLBG8489	
Amersham Protran 0.45 µm nitrocellulose	GE Healthcare Lifesciences	10600012	
Quick-RNA MiniPrep Kit	Genesee Scientific	11-358	
Laemmli Sample Buffer (4X)	Bio-Rad Laboratories Inc	1610747	
Mini Trans-Blot Cell	Bio-Rad Laboratories Inc	1703930	
Mini-Protean Tetra Cell	Bio-Rad Laboratories Inc	1658005EDU	
DPBS	Life technologies	14190-144	
0.05% Trypsin-EDTA	Life technologies	11995-065	
DMEM	Life technologies	11995-065	
Lipofectamine RNAi Max	Thermo Fisher	13778150	
Lipofectamine 2000 Reagents	Thermo Fisher	11668019	
Penicillin Streptomycin	Life technologies	15140-122	
miRVana miRNA mimic negative control #1	Thermo Fisher	4464058	neg miRNA
hsa-miR-200 mirVana miRNA mimic	Thermo Fisher	4464066	miR200A
has-miR-200 mirVana miRNA mimic	Thermo Fisher	4404066	miR200B

has-miR-200 mirVana miRNA mimic	Thermo Fisher	4404066	miR200C
Opti-MEM	Life technologies	11088-021	serum-free media
anti-Ecadherin antibody	BD Bioscience	610182	
anti-beta actin	Santa Cruz Biotechnology	sc-69879	
anti-EpCam	Ab Serotec	MCA18706	
anti-ZO1	Invitrogen	402200	
IRDye 800W	LI-COR Inc	925-32210	
IRDye 680	LI-COR Inc	926-32223	
anti-mouse AlexaFluor 647	Thermo Fisher	A211241	
anti-rabbit AlexaFluor 647	Thermo Fisher	ab150075	
Halt Protease and Phosphatase Inhibitor	Thermo Fisher	1861281	
Precision Plus Protein Dual Color	Bio-Rad Laboratories Inc	161-0374	
Partec CellTrics	Sysmex	04-004-2326	30 µm filter for flow
GAPDH-F	IDT		AGCCACATCGCTCAGACAC
GAPDH-R	IDT		GCCCAATACGACCAATCC
Ecadherin-F	IDT		TGGAGGAATTCTTGCTTTGC
Ecadherin-R	IDT		CGCTCTCCTCCGAAGAAAC
ZEB1-F	IDT		GCATACAGAACCCAACTTGAACGTC
ZEB1-R	IDT		CGATTACACCCAGACTGC
NOTCH-F	IDT		GGCAATCCGAGGACTATGAG
NOTCH-R	IDT		CTCAGAACGCACTCGTTGAT
nitro blue tetrazolium	Sigma	N5514	
hexadimethrine bromide	Sigma	H9268	polybrene
3 mL syringe	BD Bioscience	309657	
Sterile syringe filter	VWR	28145-505	
5mL polypropylene round-bottom tube	352063		flow cytometry tubes
High-Capacity cDNA Reverse Transcription Kit	Thermo Fisher	4368814	reverse transcription kit
4% paraformaldehyde	Santa Cruz Biotechnology	sc-281612	
Triton-X100	Sigma	93443	
bovine serum albumin	Sigma	A7906	