

Materials List for:

LINE-1 Methylation Analysis in Mesenchymal Stem Cells Treated with Osteosarcoma-Derived Extracellular Vesicles

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URL: <https://www.jove.com/video/60705>

DOI: [doi:10.3791/60705](https://doi.org/10.3791/60705)

Materials

Name	Company	Catalog Number	Comments
1 mL syringe	Terumo	SS+01T1	for NTA
24-well plate	Corning	3524	MSC cell culture
3730xl DNA Analyzer	Applied Biosystems, ThermoFisher Scientific	3730XL	
50 mL centrifuge tube	Corning	430829	
Beckman Optima LE-80K Ultracentrifuge	Beckman		
BlueStar Prestained Protein Marker	Nippon Genetics	MWP03	WB: protein marker
Calnexin (clone C5C9)	Cell Signaling Technology	2679	WB, dilution 1:800
CD63 (clone H5C6)	BD Biosciences	556019	WB, dilution 1:1000
Centrifuge 5702 R	Eppendorf	5703000010	For conditioned media and cells
Centrifuge 5810	Eppendorf	5810000010	For spinning down 96-well plate
Centrifuge tube (polyallomer, 14x95 mm)	Beckman	331374	Ultracentrifugation
DMEM/F-12 + GlutaMAX medium	Gibco, Life Technologies	31331-028	For AT-MS culture
Fetal bovine serum	Gibco, Life Technologies	10270-106	
GeneScan 500 LIZ size standard	Applied Biosystems, Life Technologies	4322682	for capillary electrophoresis
GenomePlex Complete Whole Genome Amplification (WGA) Kit	Sigma	WGA2-10RXN	for MSPA negative control
Hi-Di formamide	Applied Biosystems, Life Technologies	4311320	for capillary electrophoresis
HOS-143B cell line	ATCC	CRL-8303	
Hsp70 (clone 5G10)	BD Biosciences	554243	WB, dilution 1:1000
IRDye 800CW Goat anti-mouse	Li-Cor	926-32210	WB: secondary
IRDye 800CW Goat anti-rabbit	Li-Cor	926-32211	WB: secondary
LINE-1 probe-mix primers	IDT		Sequences in Table 1
MicroAmp Optical 96-well reaction plate with barcode	Applied Biosystems, Life Technologies	4306737	also requires sealing film
Micro BCA Protein Assay kit	ThermoFisher Scientific	23235	measure protein concentration
MiniProtean TGX 10% gels	Bio-Rad	456-1034	WB: gel electrophoresis
NanoSight LM14C	Malvern Instruments		for NTA
Nitrocellulose membrane 0.2 µm	Bio-Rad	1620112	WB: protein transfer
NucleoSpin Tissue XS	Macherey-Nagel	740901.50	for DNA extraction

Odyssey Blocking Buffer	Li-Cor	927-40000	WB: blocking, antibodies
PBS, 1X	Corning	21-040-CVR	
Penicillin-streptomycin	Gibco, Life Technologies	DE17-602E	Antibiotics for culture media
Protein LoBind tube, 0.5 mL	Eppendorf	22431064	For storing Evs
REVERT Total Protein Stain and Wash Solution Kit	Li-Cor	926-11015	WB: total protein staining
RKO cell line	ATCC	CRL-2577	for MSPA positive control
RPMI medium 1640 + GlutaMAX	Gibco, Life Technologies	61870-010	For HOS-143B cell culture
SALSA MLPA HhaI enzyme	MRC-Holland	SMR50	
SALSA MLPA reagent kit	MRC-Holland	EK1-FAM	
SALSA MLPA P300 probe-mix	MRC-Holland	P300-100R	
Swinging rotor SW-28	Beckman Coulter	342207	Ultracentrifugation
Syringe filter, 0.22 µm	Jet Biofil	FPE-204-030	sterile filtering FBS
Tecnai 12	FEI Company		equipped with Gatan Orius SC 1000B CCD-camera (Gatan Inc., USA); for TEM
TBS, 1X tablets	Medicago	09-7500-100	WB: buffer
Trans-Blot Turbo	Bio-Rad		WB: transfer
Thermal cycler	ThermoFisher Scientific	TCA0096	
TrypLE Express	Gibco	12604-021	for trypsinization of cells
TSG101 (clone 4A10)	Sigma	SAB2702167	WB, dilution 1:500