

Materials List for:

Detection of Copy Number Alterations Using Single Cell Sequencing

Kristin A. Knouse^{1,2,3}, Jie Wu⁴, Austin Hendricks⁵

¹Koch Institute for Integrative Cancer Research, Department of Biology, Massachusetts Institute of Technology

²Howard Hughes Medical Institute

³Division of Health Sciences and Technology, Harvard Medical School

⁴The Barbara K. Ostrom (1978) Bioinformatics and Computing Facility in the Swanson Biotechnology Center, Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology

⁵BioMicro Center, Department of Biology, Massachusetts Institute of Technology

Correspondence to: Kristin A. Knouse at kknouse@mit.edu

URL: <https://www.jove.com/video/55143>

DOI: [doi:10.3791/55143](https://doi.org/10.3791/55143)

Materials

Name	Company	Catalog Number	Comments
Aspirator tube assemblies for calibrated microcapillary pipettes	Sigma	A5177	
PVC tubing (ID 3/16", OD 5/16", ~1 foot)	VWR	89068-500	
PVC tubing (ID 5/16", OD 7/16", ~6 inches)	VWR	89068-508	
Acrodisc Syringe Filter with HT Tuffryn Membrane (diameter 25 mm, pore size 0.2 µm)	VWR	28144-040	
Serological pipette (5 mL)	BioExpress	P-2837-5	Any plastic 5 mL pipette should suffice
In-Line Water Trap for Oxygen Use	Amazon.com	700220210813	
Capillary Melting Point Tubes (ID 0.8-1.1 mm, 100 mm length)	VWR	34502-99	
Modeling clay	VWR	470156-850	
Petri dish (150 mm diameter)	VWR	25384-326	Surface should be non-adherent to facilitate aspiration of single cells
Hard-Shell Full-Height 96-Well Semi-Skirted PCR Plates	Bio-Rad	HSS9601	Any 96-well PCR plate should suffice
96-well tissue culture plate	VWR	62406-081	Any 96-well tissue culture plate should suffice
GenomePlex Single Cell Whole Genome Amplification Kit	Sigma	WGA4	
Microseal 'A' Film	Bio-Rad	MSA5001	
Mini plate spinner	Thomas Scientific	1225Z37	
Thermal cycler	Bio-Rad	1861096	Any thermal cycler should suffice so long as it can accommodate a 96-well PCR plate
Agencourt Ampure Beads	Beckman Coulter	A63880	
Dynamag-2 Magnet	Thermo Fisher Scientific	12321D	Any similar magnetic tube strip should suffice
Nextera XT DNA Library Preparation Kit	Illumina	FC-131-1096	
Nextera XT Index Kit	Illumina	FC-121-1012	
Complete kit (optimized for Roche LightCycler 480)	Kapa Biosystems	KK4845	This kit is optimized for the Roche LightCycler 480 real-time PCR machine. If using a different

			machine, substitute a kit optimized for your machine.
--	--	--	---