

Materials List for:

# Simple and Rapid Method to Obtain High-quality Tumor DNA from Clinical-pathological Specimens Using Touch Imprint Cytology

Kenji Amemiya<sup>1,2</sup>, Yosuke Hirotsu<sup>1</sup>, Toshio Oyama<sup>2</sup>, Masao Omata<sup>1,3</sup>

<sup>1</sup>Genome Analysis Center, Yamanashi Central Hospital

<sup>2</sup>Pathology Division, Laboratory Department, Yamanashi Central Hospital

<sup>3</sup>The University of Tokyo

Correspondence to: Yosuke Hirotsu at [hirotsu-bdyu@ych.pref.yamanashi.jp](mailto:hirotsu-bdyu@ych.pref.yamanashi.jp)

URL: <https://www.jove.com/video/56943>

DOI: [doi:10.3791/56943](https://doi.org/10.3791/56943)

## Materials

Name	Company	Catalog Number	Comments
FINE FROST white20 micro slide glass	Matsunami Glass ind, Ltd	SFF-011	
Arcturus PEN Membrane Glass Slides	Thermo Fisher Scientific	LCM0522	
Cyto Quick A solution	Muto Pure Chemicals	20571	
Cyto Quick B solution	Muto Pure Chemicals	20581	
May-Grunwald Solution	Muto Pure Chemicals	15053	
Giemsa solution	Muto Pure Chemicals	15002	
QIAamp DNA FFPE tissue kit	Qiagen	56404	
TaqMan Fast Advanced Master Mix	Thermo Fisher Scientific	4444557	
TaqMan RNase P Detection Reagents Kit	Thermo Fisher Scientific	4316831	
TaqMan Assay from FFPE DNA QC Assay v2	Thermo Fisher Scientific	4324034	
MicroAmp Fast Optical 96-Well Reaction Plate	Thermo Fisher Scientific	4346907	
MicroAmp optical Adhesive Film	Thermo Fisher Scientific	4311971	
MicroMixer E36	TITEC	0027765-000	
ViiA 7 Real-Time PCR System	Thermo Fisher Scientific	VIIA7-03	
Himac CF16RXII	Hitachi-koki	CF16RII	
Ion Library TaqMan Quantitation Kit	Thermo Fisher Scientific	4468802	
Ion AmpliSeq Cancer Hotspot Panel v2	Thermo Fisher Scientific	4475346	
Ion AmpliSeq Library Kit 2.0	Thermo Fisher Scientific	4480442	
Ion Xpress Barcode Adapters 1-16 Kit	Thermo Fisher Scientific	4471250	
Ion PGM Hi-Q View Sequencing Kit (200 base)	Thermo Fisher Scientific	A30044	
Ion Chef System	Thermo Fisher Scientific	4484177	
Veriti 96-well Thermal Cycler	Thermo Fisher Scientific	Veriti200	
Ion 318 Chip Kit v2 BC	Thermo Fisher Scientific	4488150	
Ion PGM System	Thermo Fisher Scientific	PGM11-001	
Ion PGM Wash 2 Bottle kit	Thermo Fisher Scientific	A25591	
Agencourt™ AMPure™ XP Kit	Beckman Coulter	A63881	
16-position Magnetic Stand	Thermo Fisher Scientific	4457858	

Nonstick, RNase-free Microfuge Tubes, 1.5 mL (Low binding tube)	Thermo Fisher Scientific	AM12450	
Nuclease-free water	Thermo Fisher Scientific	AM9938	
MicroAmp™ Optical 96-well Reaction Plates	Thermo Fisher Scientific	4306737	
MicroAmp™ Clear Adhesive Film	Thermo Fisher Scientific	4306311	
Agencourt™ AMPure™ XP Kit	Beckman Coulter	A63881	
Ethanol(99.5)	Nacalai Tesque	08948-25	
Sodium hydroxide (10M)	Sigma	72068	
DTU-Neo	TAITEC	0063286-000	
E-36	TAITEC	0027765-000	
ECLIPSE Ci-L	Nikon	704354	
Pipet-Lite LTS Pipette L-2XLS+	METTLER TOLEDO	17014393	
Pipet-Lite LTS Pipette L-10XLS+	METTLER TOLEDO	17014388	
Pipet-Lite LTS Pipette L-20XLS+	METTLER TOLEDO	17014392	
Pipet-Lite LTS Pipette L-100XLS+	METTLER TOLEDO	17014384	
Pipet-Lite LTS Pipette L-200XLS+	METTLER TOLEDO	17014391	
Pipet-Lite LTS Pipette L-1000XLS+	METTLER TOLEDO	17014382	
petit-change	WAKEN	MODEL8864	Mini centrifuge
petit-incubator	WAKEN	WKN-2290	Air incubator
SensiCare Powder-free Nitrile Exam Gloves	MEDLINE	SEM486802	
Sterile gauze	Osaki	11138	
Refrigerator MediCool	SANYO	MPR-312DCN-PJ	
FEATHER TRIMMING BLAD	FEATHER	No.130	
FEATHER TRIMMING BLAD	FEATHER	No.260	
FEATHER S	FEATHER	FA-10	
Vortex Genius 3	IKA	41-0458	Vortex mixer
Pincette	NATSUME	A-5	
1.5 mL microtube	BIOBIK	RC-0150	