

Materials List for:

Comparative Lesions Analysis Through a Targeted Sequencing Approach

Caterina Vicentini¹, Andrea Mafficini¹, Michele Simbolo², Matteo Fassan³, Pietro Delfino², Rita Teresa Lawlor¹, Borislav Rusev¹, Aldo Scarpa^{1,2}, Vincenzo Corbo^{1,2}

¹ARC-Net Research Centre, University and Hospital Trust of Verona

²Department of Diagnostics and Public Health, Section of Pathology, University and Hospital Trust of Verona

³Department of Medicine (DIMED), Surgical Pathology and Cytopathology Unit, University of Padua

Correspondence to: Vincenzo Corbo at vincenzo.corbo@univr.it

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Materials

Name	Company	Catalog Number	Comments
2100 Bioanalyzer Instrument	Agilent Technologies	G2939BA	Automated electrophoresis tool
Agencourt AMPure XP Kit	Fisher Scientific	NC9959336	Beads technology for the purification of PCR products; beads-based purification reagent
Agilent High Sensitivity DNA Kit	Agilent Technologies	5067-4627	Library quantification
Anti-BAP1	Santa Cruz Biotechnology	sc-28383	Antibody
Anti-GLUT1	Thermo Scientific	RB-9052	Antibody
Anti-KDM6A	Cell Signaling	#33510	Antibody
Anti-p53	Novocastra	NCL-L-p53-DO7	Antibody
Anti-βcatenin	Sigma-Aldrich	C7207	Antibody
Blocking Solution	home made	-	5 % Bovine serum albumin (BSA) in TBST
Endogenous peroxidases inactivation solution	home made	-	3% H ₂ O ₂ in Tris-buffered saline (TBS) 1x
Leica CV ultra	Leica	70937891	Entellan mountin media
Epitope Retrieval Solution 1	Leica Biosystems	AR9961	Citrate based pH 6.0 epitope retrieval solution
Epitope Retrieval Solution 2	Leica Biosystems	AR9640	EDTA based pH 9.0 epitope retrieval solution
Eppendorf 0.2 ml PCR Tubes, clear	Eppendorf	951010006	Tubes
Eppendorf DNA LoBind Tubes, 1.5 mL	Eppendorf	22431021	Tubes
Ethanol	DIAPATH	A0123	IHC deparaffinization reagent
ImmEdge Pen Hydrophobic Barrier Pen	Vector Laboratories	H4000	Hydrophobic Pen
ImmPACT DAB Peroxidase	Vector Laboratories	SK4105	HRP substrate
ImmPRESS Anti-Rabbit Ig Reagent Peroxidase	Vector Laboratories	MP740150	Secondary antibody
ImmPRESS Anti-Mouse Ig Reagent Peroxidase	Vector Laboratories	MP740250	Secondary antibody
Integrative Genomics Viewer (IGV)	Broad Institute	-	https://software.broadinstitute.org/software/igv/home
Ion AmpliSeq Comprehensive Cancer Panel	Thermofisher Scientific	4477685	Multiplexed target selection of 409 cancer related gene. https://assets.thermofisher.com/TFS-Assets/CSD/Reference-Materials/

			ion-ampliseq-cancer-panel-gene-list.pdf
Ion AmpliSeq Library Kit 2.0	ThermoFisher Scientific	4480441	Preparation of amplicon libraries using Ion AmpliSeq panels
Ion Chef Instrument	ThermoFisher Scientific	4484177	Automated library preparation, template preparation and chip loading
Ion PI Chip Kit v3 or Ion 540 Chip	ThermoFisher Scientific	A26771 or A27766	Barcoded chips for sequencing
Ion PI Hi-Q Chef Kit or Ion 540 Kit-Chef	ThermoFisher Scientific	A27198 or A30011	Template preparation
Ion PI Hi-Q Sequencing 200 Kit or Ion S5 Sequencing Kit	ThermoFisher Scientific	A26433 or A30011	Sequencing
Ion Proton or Ion GeneStudio S5 System	ThermoFisher Scientific	4476610 or A38196	Sequencing system
Ion Reporter Software - AmpliSeq Comprehensive Cancer Panel tumour-normal pair	ThermoFisher Scientific	4487118	Workflow
Ion Reporter Software - uploader plugin	ThermoFisher Scientific	4487118	Data analysis tool
Ion Torrent Suite Software - Coverage Analysis plugin	ThermoFisher Scientific	4483643	Plugin that describe the level of sequence coverage produced
Ion Torrent Suite Software - Variant Caller plugin	ThermoFisher Scientific	4483643	Plugin able to identify single-nucleotide polymorphisms (SNPs), insertions and deletions in a sample across a reference
Ion Xpress Barcode Adapters 1-96 Kit	ThermoFisher Scientific	4474517	Unique barcode adapters
NanoDrop 2000/2000c Spectrophotometers	ThermoFisher Scientific	ND-2000	DNA purity detection
NCBI reference sequence (RefSeq) database	NCBI	-	https://www.ncbi.nlm.nih.gov/refseq/
Platinum PCR SuperMix High Fidelity	Fisher Scientific	12532-016 or 12532-024	SuperMix for PCR amplification; high-fidelity PCR mix
QIAamp DNA Blood Mini Kit	Quiagen	51106 Or 51104	DNA blood extraction kit
QIAamp DNA FFPE Tissue	Quiagen	56404	DNA FFPE tissue extraction kit
Qubit 2.0 Fluorometer	ThermoFisher Scientific	Q32866	DNA quantification
Qubit dsDNA BR Assay Kit	ThermoFisher Scientific	Q32850	Kit for DNA quantification on Qubit 2.0 Fluorometer
TBST	home made	-	Tris-buffered saline (TBS) and 0.1% of Tween 20
Tissue-Tek Prisma Plus & Tissue-Tek Film	Sakura Europe	6172	Automated tissue slide stainer instrument
Variant Effect Predictor (VEP) software	EMBL-EBI	-	http://grch37.ensembl.org/Homo_sapiens/Tools/VEP
Xilene, mix of isomeres	Carlo Erba	492306	IHC deparaffinization reagent