

Materials List for

# Genome-Wide Analysis of DNA Methylation in Gastrointestinal Cancer

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## Materials

Name	Company	Catalog Number	Comments
(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	Sigma-Aldrich	14148	Step 5.2.
10% Sodium dodecyl sulfate (SDS)	Quality Biological	351-032-721 EA	Step 2.1.
100 % Ethanol	Sigma-Aldrich	24194	Step 1.7.
ABI StepOnePlus Real-Time PCR System	Applied BioSystems	4376600	Step 5.2. 96-well Real-Time PCR instrument
CT conversion reagent	Zymo Research	D5001-1	Step 3.2.3.
Deoxynucleotide triphosphate (dNTP)	Invitrogen	10297-018	Step 5.2.
DEPC-treated water	Quality Biological	351-068-131	Step 2.1.
Ethylenediaminetetraacetic acid (EDTA)	Corning	46-034-CL	Step 2.1.
EZ DNA Methylation Kit	Zymo Research	D5002	Step 3.2.
Fluorescein	Bio-Rad	#1708780	Step 5.2.
GenomeStudio	omicX	OMICS_00854	Step 4.3. Data analysis tool for an array platform as a $\beta$ -value, with a range from 0 to 1
Human genomic DNA	New England Bio Labs	N4002S	Step 5.3.
Infinium HD FFPE QC Kit	Illumina	WG-321-1001	Step 4.1. FFPE QC assay on a real-time PCR amplification
Infinium HumanMethylation450 assay	Illumina	WG-314	Step 4.2. Array platform for complex evaluation of DNA methylation to assess the methylation status of >450,000 CpG sites in the genome
LightCycler 480	Roche	5015278001	Step 4.1.
M-Binding Buffer	Zymo Research	D5002-3	Step 3.2.6.
M-Desulphonation Buffer	Zymo Research	D5002-5	Step 3.2.9.
M-Dilution Buffer	Zymo Research	D5002-2	Step 3.2.1.
Minfi package	Bioconductor	N/A	Step 4.4.
M-Wash Buffer	Zymo Research	D5002-4	Step 3.2.10.
Platinum Taq polymerase	ThermoFisher Scientific	10966-034	Step 5.2.

Proteinase K	New England Biolabs	P8107S	Step 2.8.
Single-use polypropylene (Eppendorf) tube	Eppendorf	24533495	Step 2.5.2.
Tris hydrochloride (Tris-HCL) 2 M pH 8.8	Quality Biological	351-092-101	Step 2.1.
Xylene	Sigma-Aldrich	214736	Step 1.3.
Zymo Spin 1 Column	Zymo Research	C1003	Step 3.2.6.
$\beta$ -Mercaptoethanol	Sigma-Aldrich	M3148	Step 5.2.