The prognostic efficacy of cell-free DNA hypermethylation in colorectal cancer

SUPPLEMENTARY TABLES

Supplementary Table 1: Gene names and known function

	Name	Function			
ALX4	Aristaless-like homeobox 1	Skull and limb development			
APC	Adenomatous polyposis	Cellular adhesion and β-catenin regulation			
BMP3	Bone morphogenetic protein 3	Bone formation			
BNC1	Basonuclin 1	Regulates proliferation and rRNA transcription			
BRCA1	Breast cancer 1	DNA repair and gene transcription			
CDKN2A	Cyclin dependent kinase inhibitor 2A	Cell-cycle regulation			
HIC1	Hypermethylated in cancer 1	Gene transcription and cellular division			
HLTF	Helicase like transcription factor	Gene transcription and cellular division			
MGMT	O-6-methylguanine-DNA methyltransferase	ansferase DNA repair			
MLH1	Mutl homolog 1	DNA repair			
NDRG4	N-myc downstream-regulated gene 4	Cell-cycle progression and regulation of mitotic signals			
NPTX2	Neuronal pentraxin 2	Synapse formation and non-apoptotic cell death			
NEUROG1	Neurogenin 1	Neuronal differentiation			
<i>OSMR</i>	Oncostatin M receptor	Cytokine receptor for cell signalling			
PHACTR3	Phosphatase and actin regulator 3	Nuclear scaffolding of proliferating cells			
PPENK	Preproenkephalin	Synaptic signalling			
RARB	Retinoic acid receptor beta	Cellular signalling and retinoic acid binding			
RASSF1A	Ras association domain family member 1A	Cell-cycle regulation and DNA repair			
SDC2	Syndecan 2	Cellular adhesion, signalling, and cytoskeletal structure			
SEPT9	Septin 9	Cell-cycle regulation and cytokinesis			
SFRP1	Secreted frizzled related peptide 1	Modulator of Wnt signalling			
SFRP2	Secreted frizzled related peptide 2	Modulator of Wnt signalling			
SPG20	Spastic paraplegia 20	Regulates endosomal traffic and mitochondria function			
SST	Somatostatin	Inhibitory hormone and regulator of endocrine system			
TAC1	Tachykinin precursor 1	Neurotransmitting and vasodilation			
THBD	Thrombomodulin	Inhibition of haemostasis			
TFPI2	Tissue factor pathway inhibitor 2	Inhibition of haemostasis			
VIM	Vimentin	Cell shape and integrity maintenance			
WIF1	Wnt inhibitory factor 1	Cell fate regulation in oncogenesis and embryogenesis			
WNT5A	Wnt family member 5A	Cell fate regulation in oncogenesis and embryogenesis			

Note. Gene names and known function have been cross-matched with the RefSeq database (http://www.ncbi.nlm.nih.gov/refseq/).

Supplementary Table 2: Characteristics of gene specific primers and probes

See Supplementary File 1

Supplementary Table 3: Characteristics of the reference gene (MEST) primers and probes

	Outer primers		Inner primers		Probes	Coordinates	Accession no.
MEST U (GGTTTTAAAAG TTCGGTGTTTATT	(130)	TGTTGTGGTAA TTAGTATATTTT	(83)	CGCGAGTAGTTGTG TTTTGTTCGCG	130492052 - 130492181	NC_000007.14
(-) CCIAACAACTA CAACCACTCC		CAACCACTCCAA CATACACTACA				
MEST M (+) GCGATGGGTTT GTGCGC	(130)	CGACGTTTTAG TTTCGAGTC	(86)	CGATCGGTGGTC GGGTTCGATCG	130486225 - 130486355	NC_000007.14
(-	GAAAAACCGA TTACGCATACG		CGCTTCCTAAAA CCAAAAATTCTCG				

Note. The primer and probe sequences for the methylation specific polymerase chain reaction with the individual amplicon sizes represented as number of base pairs in brackets to the right of the outer/inner primers respectively. The NCBI accession number (no.) and the remapping coordinates of the amplified promoter regions are also presented. (+) Forward primer, (-) Reverse primer. (U) indicates the un-methylated version of MEST, (M) indicates the methylated version of MEST.