

Supplementary Table I. Primer lists used in real-time-PCR and promoter methylation analysis

HPV detection and typing primer					
Name of the primer	Purpose of use	Forward primer	Reverse primer	Product size (bp)	PCR condition (°C)
MY09 MY11	HPV detection	5' gemcagggwcataayaatgg3'	5' cgtccmarrggawactgatc 3'	452 bp	54
E6 region	Detection of HPV 16	5' agggcgtaaccgaaatcg 3'	5' catatacctcacgtcgca 3'	206 bp	54
LCR region	Detection of HPV 18	5' catatacctcacgtcgca 3'	5' cgggtgcataaactatgtat 3'	361 bp	58
RNA primer					
Genes	Forward primer	Reverse primer	Product size (bp)	PCR condition (°C)	
HIF1 α	5'-TTAGAACCAAATCCAGAGTCAC-3'	5'- TATTCAGTGGACTATTAGGCT-3'	125	56	
VHL	5'-GCGTCGTGCTGCCCCGTATG-3'	5'-TTCTGCACATTTGGGTGGTCTTC-3'	343	62	
LIMD1	5'-GTAAATTCATCGGAGGACCTG-3'	5'-CCATCCACAGTCAGCTTG-3'	268	56	
VEGF	5'- GAGATGAGCTTCCTACAGCAC-3'	5'- TCACCGCCTCGGCTTGTCACAT-3'	345	59	
β 2m	5'-GTGCTCGCGCTACTCTCTCT-3'	5'-TCAATGTCGGATGGATGAAA-3'	143	55	
Methylation primer					
Genes	Forward primer	Reverse primer	Product size	Location	
VHL	5'-GAGGTCAAGGCTGCAGTGAG-3'	5'-GAGGCTAGGCCAACTCGTTA-3'	154	292 bp to 140 bp in 5' flanking region	
LIMD1	5'-TAGGCAGGTGGAAGTCTTTA-3'	5'-CCAGGTCGTCATACTTATCC-3'	201	30 bp in 5' flanking region to 131 bp within exon 1	
K1	5'-TGCCCTCTGGACTGGAACCT-3'	5'-CCTGAGCCCAGCCCAAGTC-3'	445		
K2	5'-AGAGTTTGATGGAGTTGGGT-3'	5'-CATTTCGGTTTGGGTCAATCC-3'	229		

HPV, Human papillomavirus; PCR, polymerase chain reaction; HIF1 α , hypoxia-inducible factor-1 α ; VEGF, vascular endothelial growth factor; *VHL*, von Hippel-Lindau; bp, base pairs