

Supplementary Table S1 – PCR primer and probe sequences

Parameter	Target	Region	Name	Location (5' - 3')	Sequence (5' - 3')	Size
DNA VL	HPV16	E6	E6 For (1)	382-407	CAAACCGTTGTGTGATTTGTTAATTA	89
			E6 Rev (1)	448-470	GCTTTTTGTCCAGATGTCTTTGC	
			E6 Probe (1)	410-445	TGTATTAAGTGTCAAAGCCACTGTGTCTGGAAGAA (7)	
	HPV18	E6	18 F (2)	507-525	AGAGGCCAGTGCCATTCGT	65
			18 R (2)	551-571	GTTTCTCTGCGTGGTGGAGT	
			18 P (2)	526-547	TCCTGTCGTGCTCGGTTGCAGC (7)	
	HPV31	E6	31 F (2)	479-502	ATTCCACAACATAGGAGGAAGGTG	76
			31 R (2)	531-554	CACCTGGGTTTCAGTACGAGGTCT	
			31 P (2)	504-528	ACAGGACGTTGCATAGCATGTTGGA (7)	
	HPV45	E6	45 F (2)	495-517	GGACAGTACCGAGGGCAGTGTAA	71
45 R (2)			543-565	TCCCTACGTCTGCGAAGTCTTTC		
45 P (2)			520-541	CATGTTGTGACCAGGCACGGCA (7)		
Cell	GAPDH	GAPDH forward (3)	2040-2921	GGACTGAGGCTCCCACCTTT	188	
		GAPDH reverse (3)	3089-3108	GCATGGACTGTGGTCTGCAA		
		HT probe (3)	2943-2966	CATCCAAGACTGGCTCCTCCCTGC (7)		
Methylation	PE		A FW (4)	7829-7851	TTGTAAAATTGTATATGGGTGTG (9)	193
			A REV (4)	94-117	AAATCCTAAAACATTACAATTCTC (8), (9)	
			400 S1 (4)	9-30	AATTTATGTATAAAAATTAAGGG (10)	
			400 S2 (4)	7838-7858	TGTATATGGGTGTGTGTAAT (10)	
	5'-LCR		B FW (4)	7459-4781	GGTTGTATGTTTTTGGTATAAA (9)	263
			B REV (4)	7692-7721	AAAACAAACCAAAAATATATACCTAACAC (8), (9)	
			500 S1 (4)	7510-7529	GTAATTATGGTTAAATTTG (10)	
	5'-LCR		500 S2 (4)	7645-7664	ATTGTGTTATATAAAAATAAA (10)	281
			700 (4)	7211-7230	GTATGTGTTTGTAAATATTA (8), (9)	
			C REV (4)	7491-7468	AAAAACACATTTTATACCAAAAAA (9)	
	3'-L1		600 (4)	7463-7482	TTTTATACCAAAAAACATAC (10)	390
			D FW (4)	6974-6996	TTGGGAAGTAAATTTAAAGGAAA (9)	
			D REV (4)	7340-7363	AATAACCACAACACAATTAATAAA (8), (9)	
	3'-L1		1000 (4)	7011-7030	TTAGATTAGTTTTTTTTAGG (10)	386
			E FW (4)	6975-6994	TGGGAAGTAAATTTAAAGGA (8), (9)	
			E REV (4)	7340-7360	AACCACAACACAATTAATAAA (9)	
	3'-L1/5'-LCR		800 (4)	7147-7166	TACATACAATACTTACAAC (10)	315
			F FW (4)	7049-7072	AGTAGGATTGAAGTTAAATTA (9)	
			F REV (4)	7340-7363	AATAACCACAACACAATTAATAAA (8), (9)	
	5'-LCR		700 (4)	7211-7230	GTATGTGTTTGTAAATATTA (10)	468
900 (4)			7067-7086	ATTAAAATTTATATTAGGAA (10)		
Msp10F (5)			7280-7303	TAAAATATGTTTTGTGGTTTTGTG		
HPV18	PE / 5'-E6	Msp10R (5)	7721-7747	ATAATTATACAAACCAATATACAATT	291	
		Msp8F (5)	7753-7781	TGTTTAAATATTTGTTTATTTTAAATATG		
		Msp8R (5)	161-786	TATCTTACAATAAAATATTCAATTCC		
3'-L1		18 E FWD (6)	6968-6997	AAAGGAAAAGTTTTTTTAGATTTAGATTA	221	
		18 E REV (6)	7163-7188	ACAAAACATACAAACACAACAATAAA		
HPV31	3'-L1	31 L FWD (6)	6908-6935	AAAGAAAAGTTTTTTGTAGATTTAGATT	205	
		31 L REV (6)	7087-7112	ACACAAACACATACACATACAAACAC		
HPV45	3'-L1 5'-LCR	45 L FWD (6)	6954-6976	GTTTTGGATTGTTGATTTAAAGG	336	
		45 L REV (6)	7264-7289	ATAACACCATACATACCACAAAACAC		
Integration	HPV16	E6	(1)	-	same for DNA VL, above	132
			E2-5'	16 E2-5 FWD (6)	2852-2873	
	E2-3'	16 E2-5 REV (6)	2959-2983	GTTGCAGTTCAATTGCTTGAATGC	104	
		16 E2-3 FWD (6)	3683-3704	<sup>18</sup> ATTGTATACTGCAGTGTGTC		
	E2-3'	16 E2-3 REV (6)	3767-3786	GTCACGTTGCCATTCATAT	-	
		(2)	-	same for DNA VL, above		
	HPV18	E2-5'	18 E2-5 FWD (6)	3109-3128	TGCAAGACACATGCGAGGAA	157
			18 E2-5 REV (6)	3244-3265	CATGTTCTGCATCAGTCATAT	
			18 E2-3 FWD (6)	3632-3652	TACAGGCAACAACAAAAGACG	
	E2-3'	18 E2-3 REV (6)	3789-3808	CCTGTTTTTTCATTGCCTGC	177	
		(2)	-	same for DNA VL, above		
		HPV31	E2-5'	31 E2-5 FWD (6)		2650-2671
	31 E2-5 REV (6)			2691-2712	CGTTGAGAAAGAGTCTCCATCG	
	31 E2-3 FWD (6)			3429-3448	CAAGAACAGAGCCAGAGCAC	
	E2-3'	31 E2-3 REV (6)	3487-3506	AGTTGACACTGTCCACGGAG	78	
		(2)	-	same for DNA VL, above		
HPV45		E2-5'	45 E2-5 FWD (6)	2752-2768		AGATTTGCACGAGGACG
	45 E2-5 REV (6)		2776-2790	CCTCGGTGTCTGCA		
	45 E2-3 FWD (6)		3843-3860	GTACAAATCTCGGTGGGA		
E2-3'	45 E2-3 REV (6)	3960-3974	AAGCGGACATTGCA	132		

(1) Oligonucleotide derived from the literature (Lanham et al., 2001).

(2) Oligonucleotide derived from the literature (Lindh et al., 2007).

(3) Oligonucleotide derived from the literature (Payan et al., 2007).

(4) Oligonucleotide derived from the literature (Rajeevan et al., 2006).

(5) Oligonucleotide derived from the literature (Turan et al., 2006).

(6) Oligonucleotide designed in house.

(7) Oligonucleotide modified as follows: 5'-FAM, 3'-TAMRA.

(8) Oligonucleotide modified as follows: 5'-biotin.

(9) Oligonucleotide used for amplification.

(10) Oligonucleotide used for pyrosequencing.