

Supplementary Table 1 List of primers used, their amplicon size, and the annealing temperatures for reverse transcriptase PCR.

| Primer set (Lab ID) | PCR Type | Primer sequence | Amplicon size (bp) | Annealin g temp. (°C) |
|------------------------|----------|--|-----------------------|-----------------------------|
| GAPDH-RT (P1284) | RT | Forward: 5' GTCTCCTCTGACTTCAACAGCG 3' | 129 | 62 |
| | | Reverse: 5' ACCACCCTGTTGCTGTAGCCAA 3' | | |
| HPV16E6 (P1290) | RT | Forward: 5' AATGTTTCAGGACCCTACGG 3' | 339 | 52 |
| | | Reverse: 5' TCAGGACACAGTGGCTTTTG 3' | | |
| HPV16E7 (P1291) | RT | Forward: 5' TTTGCAACCAGAGACA ACTGA 3' | 214 | 58 |
| | | Reverse: 5' GCCCATTAACAGGTCTTCCA 3' | | |
| HPV18E6 (P1292) | RT | Forward: 5' GCGACCCTACAAGCTACCTG 3' | 427 | 58 |
| | | Reverse: 5' GTTGGAGTCGTTCCIGTCGT 3' | | |
| HPV18E7 (P1293) | RT | Forward: 5' ACTCCTACGGGAGGCAGCAGTA 3' | 322 | 56 |
| | | Reverse: 5' TGTTGCTTACTGCTGGGATG 3' | | |
| STAT3 (P1122) | RT | Forward: 5' CTCCATCAGCTCTACAGTGA 3' | 157 | 54 |
| | | Reverse: 5' GGCTATACTGCTGGTCAATC 3' | | |

bp: base pairs, GAPDH: Glyceraldehyde-3-phosphate dehydrogenase, HPV: Human papillomavirus, RT: Reverse transcription, STAT3: Signal transducer and activator of transcription 3

Supplementary Table 2 List of probes used in the present study.

| Probe Set (Lab ID) | Type | Probe sequence (5`-3`) | Size (nt) | Label |
|-----------------------------------|-------------|------------------------------------|------------------|--------------|
| STAT3 (P1268) | SLP | GCCGACAATACTTTCCGAATGCCTCCTCCT | 30 | 5` AF-488 |
| HPV16 E6 (P1269) | SLP | CATAACTGTGGTAACTTTCTGGGTCGCTCCTGTG | 34 | 5` Biotin |
| Scrambled- STAT3 (1296) | SLP | ATTCCATCGCAACCTATCTGCGCCGTCTCA | 30 | 5` AF-488 |
| Scrambled- HPV16 E6 (P1297) | SLP | ACGTTGCTCCTTGTGTGCGATAACTATCTGGTGC | 34 | 5` Biotin |

nt: nucleotides, SLP: Single Locus Probe, AF- Alexa Fluor, HPV: Human papillomavirus, STAT3: Signal transducer and activator of transcription 3.