**Supplementary Table 1. Primer and probe sequences for ddPCR, fragment sizes, and annealing temperature.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HPV subtype** | **Forward primer** | **Reverse primer** | **Probe** | **Amplicon size** | **Annealing temperature** |
| HPV16 | TCCAGCTGGACAAGCAGAAC | CACAACCGAAGCGTAGAGTC | ACAGAGCCCATTACAAT | 88 pb | 60°C |
| HPV18 | AACATTTACCAGCCCGACGA | TCGTCTGCTGAGCTTTCTAC | AACCACAACGTCACACAA | 106 pb | 60°C |
| HPV31 | CGTTACCTTTTGTTGTCAGTGT | GAACAGTTGGGGCACACGA | ACAGAGCACACAAGTAG | 123 pb | 56°C |
| HPV33 | CAGATGAGGATGAAGGCTTGGA | ACTGTTGACACATAAACGAACTG | CTTGTCCATCTGGCC | 119 pb | 56°C |
| HPV58 | CAGACGAGGATGAAATAGGCTTG | ATGTAGTAATTAGCTGTGGCCGG | CTTGTCCATCTGGCC | 70 pb | 56°C |
| HPV66 | CCGTTAACACCGGAGGAAAA | ATGACCCGGTCCATGCATAT | TGAACATAAAAGACGATTTC | 82 pb | 56°C |