

**Supplemental Table 1.** Primers for genotype specific L1 genes

Primers	Oligonucleotide sequences (5->3)	Size (bp)	GenBank accession no.
HPV 6-F	TGCCACGGATGCTTATGTTA	1421	NC_001355
HPV 6-R	CTTACGTTTAGGGCAGCAG		
HPV 11-F	TGTTGCCAGATCCTAACAAGTTT	1185	M14119
HPV 11-R	TTTGAATAAAAACTTACGTCCAA		
HPV 16-F	TTGCCTCCTGTCCAGTATC	1401	GQ465893.1
HPV 16-R	TTTTGGTTTGGCCTTCAATC		
HPV 18-F	TCTCCACCTCCTTCTGTGG	1461	AY262282
HPV 18-R	AGTGGCAGATGGAGCAGAAC		
HPV 30-F	GTTCCAAGGTGTCTGCATT	1510	X74474
HPV 30-R	GGACACAACCGCACCTTAGT		
HPV 31-F	GGCAGTGCTAGGCTGCTTAC	1381	J04353
HPV 31-R	GCTGAGGGTGCCTACGTTT		
HPV 32-F	TGCAGTATAGAGTATTTAGGGTTAGGC	1295	X74475
HPV 32-R	GCGTTTTGCAGGAGAAGAAG		
HPV 33-F	TTGGATTCCTGACACCTCC	1570	M12732
HPV 33-R	AGGGAAATAAAGGTAGGTACATTGC		
HPV 35-F	AGATGTCTCTGTGGCGGTCT	1436	GQ479039.1
HPV 35-R	CTGGCCTTAGTCCTGCTTG		
HPV 39-F	AGCAGGACATTCAAAGGTG	1482	M62849
HPV 39-R	GTCACAGGGTGTGCAATCAC		
HPV 40-F	TAGGGTACGTTTGCTGACC	1440	X74478
HPV 40-R	CATACACAGTACCATACGGACACAT		
HPV 42-F	ACCATGCCAGCAGTTCTAGG	1353	M73236
HPV 42-R	GCTGTAGACGCCTTTCGTTT		
HPV 43-F	TGTGCAACGCACCAACTTAT	1403	AJ620205.1
HPV 43-R	GGCAGACGTAGAGGAGGATG		
HPV 44-F	GCCTAAGGTTTCGGGATTC	1265	U31788
HPV 44-R	ACCCACACGAACAGAGGAAC		
HPV 45-F	TATCCGCATATCAGTATAGGGTGTT	1477	X74479
HPV 45-R	TACATGCCACAAGGCACATT		
HPV 51-F	TGCAGGCAGTCCAGACTAA	1386	M62877
HPV 51-R	TTGGCTGAAGAGGAAGAGGA		
HPV 52-F	CCACTGTGTACCTGCCTCCT	1440	GQ472848.1
HPV 52-R	ATGCAGGGCGTTTTAGTTTG		
HPV 53-F	GTCTGCATTTCACTATAGGGTGTTT	1482	EF546474.1
HPV 53-R	TTATGCAACCACGCGTAAAA		
HPV 54-F	TACCTGCCTCCTACCCCAGT	1441	NC_001676
HPV 54-R	GCGCTGTACCCTTAGAGGAG		
HPV 55-F	TGGGTTGGAAGTGGGTAGAG	1191	U31791
HPV 55-R	CGTTTGGGTTTACTGGAGGA		
HPV 56-F	GATTGCTTGCCGTAGGACAT	1392	X74483

**Supplemental Table 1.** Continued

Primers	Oligonucleotide sequences (5->3)	Size (bp)	GenBank accession no.
HPV 56-R	CACAACAACACACTACCGCC		
HPV 58-F	GACTTTTGGCTGTTGGCAAT	1348	D90400
HPV 58-R	GATGGTGCACGGGTAGTAGG		
HPV 59-F	CCCAATAAATTTGGCCTTCC	1258	X77858
HPV 59-R	TTTTGGTGATGGGGTAGAGG		
HPV 62-F	ACCTGATGCAACCTTATATAATCCA	1258	AY395706
HPV 62-R	TTACTTCCTGCGCTTTCGTT		
HPV 66-F	TAGGGTACGGTTCCTGATC	1269	EF177188.1
HPV 66-R	AGAGGAAGAGGTAGGAGCCG		
HPV 67-F	GGTGTTAGTGCCCAAGGTGT	1497	D21208.1
HPV 67-R	TTACTCATTGGGTGCAACCA		
HPV 68-F	AAGCAGGGCATTCTAAGGT	1418	DQ080079
HPV 68-R	CAACATACCAACACCAACATGAC		
HPV 69-F	TGGGTCATCCCTATTTTCCA	1338	AB027020
HPV 69-R	AAGAAGCTGGACGTTTGGTG		
HPV 70-F	CCGCAAGCAGGAAATACCTA	1336	U21941
HPV 70-R	CACACGTTTCCGTTTGTGTT		
HPV 72-F	ACAATCCAGATACTGAACGGCT	1174	X94164
HPV 72-R	TGACACTGAAACAGCCCTAGAA		
HPV 81-F	TGAAGCTCCCTGACCCTAATAA	1200	AJ620209
HPV 81-R	ACCCAGACTGCAACAAAAACTT		
HPV 82-F	GACCCCAACAAATTTGGTCTT	1258	AB027021
HPV 82-R	TGGCTGAAGAGGAAGAGGAA		
HPV 84-F	GTCCATTACCTGACCCCAATA	1367	AF293960
HPV 84-R	CAAAATGGCACACACAGAGATT		
HPV 90-F	AGTGGTTCCCAAGGTGTCTG	1329	NC_004104.1
HPV 90-R	CGTTTGGACCGTTTACGTTT		
HPV 91-F	GCGCACCAACTTATTTACCA	1391	AF419318.1
HPV 91-R	CTGAACTGGAGGATGGTGCT		