Supplementary Table S1: Primer sequences

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| **Gene - Primer ID** | **Sequence** | **Application\*** |
| Exon 2 forward | 5’ CCGGGAGTAGAGGTGCTA 3‘ | SA |
| Exon 2 reverse | 5‘ GTCTGCTATTATCACATACCCC 3‘ | SA |
| Exon 3 forward | 5‘ TCAGTTTGCCCTTGACTAGGA 3‘ | SA |
| Exon 3 reverse | 5‘ TGAGTCCCACTGGAGGTTTC 3‘ | SA |
| Exon 4 forward | 5‘ GGGAGTACAGGATACATT 3‘ | SA |
| Exon 4 reverse | 5‘ GCTGGAAAGCATTTAAGTA 3‘ | SA |
| Exon 5 forward | 5‘ ACCTAAGGGCCTCATTTTCC 3‘ | SA |
| Exon 5 reverse | 5‘ AGCAAAAAGGAAAACCGTGA3‘ | SA |
| Exon 6 forward | 5‘ TGAGATCTACTTACCTATGGCCTTG 3‘ | SA |
| Exon 6 reverse | 5‘ AGGGTGGCAGCAACTCAG 3‘ | SA |
| Exon 7 forward | 5‘ GCTAATGATGTAAAATCTTGTGTGTG3‘ | SA |
| Exon 7 reverse | 5‘ CAGGAACAAAACCCCTTCTG3‘ | SA |
| Exon 8 forward | 5‘ CTCTGTATCGGTGGGGTGAC3‘ | SA |
| Exon 8 reverse | 5‘ CAAAAAGCATCGAACACACG3‘ | SA |
| Exon 9 forward | 5‘ GCTTGGCGGTTTTCCTCAG3‘ | SA |
| Exon 9 reverse | 5‘ CTTTGCTTTCTAAGGCCACCT3‘ | SA |
| Exon 4 forward | 5‘ TCAGTACAACTCACTGGAAGAAATACAC3‘ | qPCR |
| Exon 4 reverse | 5‘ AGGATGTTGCAAAGGACAAATATG3‘ | qPCR |
| Exon 6 forward | 5‘ AATCCGAGCTGTTCCACTTGTT 3‘ | qPCR |
| Exon 6 reverse | 5‘ AAGTCTTCAAATCTTCCCCGGT 3‘ | qPCR |
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| **Gene - Primer ID** | **Sequence** | **Application** |
| TERT forward | 5‘ GGGAAGCATGCCAAGCTCT 3‘ | qPCR |
| TERT reverse | 5‘ CACGCTCATCTTCCACGTCA 3‘ | qPCR |
| RPPH1 forward | 5‘ CTTTGCCGGAGCTTGGAAC 3‘ | qPCR |
| RPPH1 reverse | 5‘ GCCATTGAACTCACTTCGCTG 3‘ | qPCR |
| A20\_meth\_fw | 5‘ TTTTCGGAGAGGTAATCGTC 3‘ | MSP |
| A20\_meth\_rv | 5‘ AACGCCAAATAAACGATACC 3‘ | MSP |
| A20\_meth\_fw | 5‘ TTGGCGTTTTGTTTTTTTC 3‘ | MSP |
| A20\_meth\_rv | 5‘ CGTCGAACTAATCCTACACAA 3‘ | MSP |
| A20\_unmeth\_fw | 5‘ GTTTTTTGGAGAGGTAATTGTT 3‘ | MSP |
| A20\_unmeth\_rv | 5‘ CCAACACCAAATAAACAATACC 3‘ | MSP |
| A20\_unmeth\_fw | 5‘ GTTGGTGTTTTGTTTTTTTT 3‟‘ | MSP |
| A20\_unmeth\_rv | 5‘ CCATCAAACTAATCCTACACAA 3‘ | MSP |

SA denotes direct sequencing

qPCR denotes gene copy number assay

MSP denotes methylation specific PCR