Supplementary Table 1. PCR primer sequences and reaction conditions

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| PCR | Primers | Size (bp) | TA (℃) | PCR cycles |
| RT-PCR |  |  |  |  |
| MAPK10 | F3: 5’-cagctctctaaattgactcag-3’ |  |  |  |
| RR3: 5’-ccaatgttggttcactgcag-3’ | 248 | 55 | 32 |
| GAPDH | 333: 5’-gatgaccttgcccacagcct-3’ |
| 355: 5’-atctctgcccctctgctga-3’ | 304 | 55 | 23 |
|  |
| Methylation-specific PCR (MSP) |  |  |  |  |
| Methylated | m3: 5’-cgagtagttttagcggttac-3’ | 160 | 60 | 40 |
| m5: 5’-aaaaccttctaacgcgaacga-3’ |
| Unmethylated | u3: 5’-tgtgagtagttttagtggttat-3’ | 163 | 58 | 40 |
| u5: 5’-caaaaccttctaacacaaacaa-3’ |

TA, annealing temperature.