

S1 Table. Bisulfite and RT-qPCR PCR primers

| Identification | PCR Purpose | Amplicon size | Tm | Forward Primer | Tm2 | Reverse Primer | CpGs in amplicon |
|----------------|---------------|---------------|-------|---------------------------|-------|------------------------------|------------------|
| VDR_MP_bis | Bisulfite PCR | 275 bp | 59.29 | GTTGGGTTGTTTTGTTTGTAAA | 58.8 | TCAAACCTCAATACCCCTTAATATC | 23 |
| VDR_AP1c_bis | Bisulfite PCR | 345 bp | 57.39 | TTTAAAGGTTTTTGAAATGAAGAAG | 59.44 | CTCCCTCCTAACACCCTAAACTATAA | 10 |
| VDR_q_1 | qPCR | 128 bp | 62.3 | GCTGGACGGAGAAATGGAC | 62 | ACAGACACTTCAGACCCAAAG | NA |
| VDR_q_2 | qPCR | 135 bp | 62.2 | TTTGGGTCTGAAGTGTCTGTG | 62.1 | GTTCCGGTCAAAGTCTCCAG | NA |
| VDR_AS_q | qPCR | 150 bp | 61.7 | CCATTCACCCTCGTACCAC | 62.2 | GTTCTCCATCCTTTTCAACA CTTG | NA |

The table shows the primer pairs used in the study. Amplified transcripts are identified by RefSeq Accession or GeneBank accession number.

qPCR: quantitative PCR; bp: base pair; Tm: Melting Temperature; NA: not applicable