Supplement table 1. the sequences of specific primers and Tm value

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| Gene | Primers | Tm (℃) |
| *COL-1* | Forward: 5'-AAGGAGAAAGAGGAGCCAAAGG-3' | 61.1 |
| Reverse: 5'-AGCACCAGGGAAACCAGTCATAC-3' | 62.1 |
| *ALP* | Forward: 5'-CAGATGAAGTGGGAGTGCTTGT-3' | 59.2 |
| Reverse: 5'-CTGATGTGGAGTATGAGAGTGACG-3 | 59.0 |
| *TFAM* | Forward: 5'-ATGGCGTTTCTCCGAAGCAT-3' | 62.2 |
| Reverse: 5'-TCCGCCCTATAAGCATCTTGA-3' | 60.4 |
| *NRF1* | Forward: 5'-AGGAACACGGAGTGACCCAA-3' | 62.9 |
| Reverse: 5'-TATGCTCGGTGTAAGTAGCCA-3' | 60.4 |
| *GAPDH* | Forward: 5'-CTTTGGTATCGTGGAAGGACTC-3' | 58.2 |
| Reverse: 5'-GTAGAGGCAGGGATGATGTTCT-3' | 57.6 |