**Supplementary Table 1 Primer sequences**

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| --- | --- | --- | --- |
| Primer | Sequence | Length of PCR product(bp) | Tm(ºC) |
| COL6A3 | tctgttcctctttgacggct  ccaccttgacatcatcgctg | 146 | 58 |
| SERPINH1 | ctgtccggtgcatcatcatg  gccatgttcttcaagccaca | 115 | 58 |
| PLEKHG1 | tgcacttaaaacccagcgac  accccagagttagccttcac | 187 | 58 |
| PGA4 | gaagcacaacctcaacccag  atgccgatagtgccgaagta | 117 | 58 |
| KCNE2 | atcctggtgagcactgtgaa  ttctcatggatggtggcctt | 140 | 58 |
| GIF | gctcaaatcctcccttccct  tgttagatgcagaggtgggg | 130 | 58 |