**Supplementary Table 1：Sequences of primers used in this study**

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| --- | --- | --- | --- |
| Primer | Target | Sequence, 5’-3’ | Use |
| *ZNF132* F | Coding region | GTCATTGAGAGGCGGGACT | qPCR |
| *ZNF132* R | Coding region | TCGGGAACACCTTGGCTCAT | qPCR |
| *ZNF132* Xba I | CDS sequence | GCTCTAGAATGGCCCTGCCCAGC | PCR |
| *ZNF132* Not I | CDS sequence | ATAAGAATGCGGCCGCTCAGGTATGAATCTT | PCR |
| GAPDH F | Coding region | GAAGGTGAAGGTCGGAGTC | qPCR |
| GAPDH R | Coding region | GAAGATGGTGATGGGATTTC | qPCR |
| *ZNF132* F | Promoter region | GGTGTTTTAGGGTTGGTTATTGG | BSP |
| *ZNF132* R | Promoter region | TACCTTCCTCRCTCCTATTTCCATAA | BSP |
| LINE-1 F | Positive control | AGTAGGGYGAGGTATTGTTTTATTTG | BSP |
| LINE-1 R | Positive control | AAACTACTATACTAACAATCAACARAATTCC | BSP |
| ChrM F | Negtive control | TGTGTGGAAAGTGGTTGTGTAGATATT | BSP |
| ChrM R | Negtive control | AATCACAAATCTATCACCCTATTAACCA | BSP |