Table S13. List of primers used in the RT-qPCR and the detection of marker genes at Leydig cells, Sertoli cell, and spermatogonia. Tm=60℃.

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| LncRNA ID | Primer | Product length (nt) |
| LNC\_003410 | F: 5′- GATTTTCGGCTCAACGCAGG -3′R: 5′- TGGCTCCTCTGGTTGTTAGG -3′ | 133 |
| LNC\_017797 | F: 5′- TGCGGTAGCGTAGTTTCCTT -3′R: 5′- ATCCACTTCTGCGTAGCACC -3′ | 167 |
| LNC\_014281 | F: 5′- ACTGCTGTAGACCAGGACCA -3′R: 5′- CCGCATTTAAGGCCTTTCAGA -3′ | 153 |
| PLZF | F: 5′- CACCGCAACAGCCAGCACTAT-3′R: 5′- CGGCATACAGCAGGTCATCCAA-3′ | 127 |
| DAZL | F: 5′- TCCGTCCTCTGGAAATGGC-3′R: 5′- AGCACTGCCCGACTTCTTC-3′ | 168 |
| OCT4 | F: 5′- AAGGGCAAACGATCAAGCA-3′R: 5′- AATGGGACCGAAGAGTACAGAGT-3′ | 167 |
| GFRA1 | F: 5′- CTCCCAGTTCAGACCACCAC -3′R: 5′- GAGAGGAAAACAAGCAGGGC -3′ | 296 |
| GDNF | F: 5′- GCAGCCGAAACAATGTACGA -3′R: 5′- AAGGCGATGGGTCTGCAA -3′ | 100 |
| SCF | F: 5′- ATTGGTGGCAAATCTTCCCA -3′R: 5′- TGCACTCCACAAGGTCATCAA -3′ | 217 |
| PDGFR-α | F: 5′- GGGAAGTTAGGGACAACTCGG -3′R: 5′- GCTGGCAGAGGATTAGGCTC -3′ | 128 |
| P450scc | F: 5′- GCTAGCATCAAGGAGACGCT -3′R: 5′- CCACCTGGTTGGGTCAAACT -3′ | 186 |
| STAR | F: 5′- TGGAAGTCCCTCAAGGACCA -3′R: 5′- CACCTTGTCCCACTGTCCTC -3′ | 285 |