Table S1.The primers for real-time PCR

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| **gene** | **Prime sequence** | **annealing temperature (℃)** | **Length of PCR product(bp)** |
| GAPDH(RAT) | F:5’ GCTCTCTGCTCCTCCCTGTTCTA3'R:5’ TGGTAACCAGGCGTCCGATA3’ | 60 | 124 |
| rno\_circRNA\_010774 | F:5' CTGAACAACAAGAATCCCAGAAC3'R :5’ GCCCGTAAACACATGATACAAAC3’ | 60 | 207 |
| rno\_circRNA\_005151 | F:5' GGACAAAAATCGGATAATAAGA3'R :5’ AGAGGACTTTTTCTGATGCTAA3’ | 60 | 184 |
| rno\_circRNA\_008508 | F:5' GATTCCAATGATGTATCAACAAGG3'R :5’ AGAGCAGTCCAAGGTAAGCCAT3’ | 60 | 78 |
| rno\_circRNA\_015657 | F:5' CAGGAAGTATTTTTATTGGAAGAGG3'R :5’ TCTGGGGGGAAACAAATCATC3’ | 60 | 103 |
| rno\_circRNA\_012605 | F:5' TACCCCACAAGGTTGCCTGT3'R :5’ TGCTCTTCCACAGTTCAGTCCA3’ | 60 | 144 |
| rno\_circRNA\_017999 | F:5' TAGATGCCAACGGGGTCCCT3'R :5’ TGAGTCTGGGTCATCGGGAAC3’ | 60 | 200 |
| rno\_circRNA\_004800 | F:5' ACTCCTGGCTAAGCTGGAGG3'R :5’GGCTGGCCATCTGACTGACT3’ | 60 | 121 |
| rno\_circRNA\_014599 | F:5' ACCTCAGAAACCTCAGTCAGCA3'R :5’ AGCATAGCAGGACCACCACT3’ | 60 | 187 |
| rno\_circRNA\_000047 | F:5' ACCTCAGCCTCAGCAGCAAT3'R :5’ GGATGGCTGAGGAGGAGCAG3’ | 60 | 171 |