**Table S1. Name and sequence of primers sets for real-time RT-PCR**

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| Gene name |  Primer sequence |
| P53 | Forward：GGAAGTCCTTTGCCCTGAACT  |
| Reverse： GTCTTCAGGTAGCTGGAGTGAG |
| P21 | Forward：TGTCCGTCAGAACCCATGC |
| Reverse： AAAGTCGAAGTTCCATCGCTC |
| P16 | Forward：ATGGAGCCTTCGGCTGACT |
| Reverse： GTAACTATTCGGTGCGTTGGG |
| Apaf1 | Forward：AAGGTGGAGTACCACAGAGG |
| Reverse：TCCATGTATGGTGACCCATCC |
| GAPDH | Forward：GGAGCGAGATCCCTCCAAAAT |
| Reverse： GGCTGTTGTCATACTTCTCATGG |
| Hsa-mir-136 | Forward: ACACTCCAGCTGGGACTC |
| Reverse：TGGTGTCGTGGAGTCG |
| Hsa-mir-155 | Forward: TGCCTCCAACTGACTCCTAC |
| Reverse: GCGAGCACAGAATAATACGTA |
| Hsa-mir-29c | Forward: TGCCAGGAGCTGGTGATTTCCT |
| Reverse: ACGGGCGTACAGAGGATCCCC |
| Hsa-mir-17 | Forward: ACACTCCAGCTGGGCAA-AGTGCT |
| Reverse: TGGTGTCGTGGAGTCG  |
| Hsa-mir-19 | Forward: TGC GGTTCACAGTGGCTAAG  |
| Reverse: CCAGTGCAGGGTCCGAGGT  |
| Hsa-mir-20a | Forward: GCTAAAGTGCTTATAGTG  |
| Reverse: GACTGTTCCTCTCTTCCTC |
| Hsa-mir-106a | Forward: GGAAAAGTGCTTACAGTGCAGGTAG  |
| Reverse: GCACTGGATACGACAAAATATGGAAC |
| U6 | Forward：CTCGCTTCGGCAGCACA |
| Reverse：AACGCTTCACGAATTTGCGT |