**Supplementary Table 1. Quality Control (QC) of RNA Experiment**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample** | **OD260/280** | **Conc.(ng/μl)** | **Volume(μl)** | **Quantity(μg)** |
| A1 | 1.59 | 152.03 | 13 | 1.98 |
| A2 | 1.66 | 100.28 | 13 | 1.30 |
| B1 | 1.54 | 130.01 | 13 | 1.69 |
| B2 | 1.64 | 142.42 | 13 | 1.85 |

**Supplementary Table 2.** **Quality Assessment of Sequencing Library**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sample** | **Size(bp)** | **Conc.(ng/μl)** | **Conc.(nmol/L)** | **Volume(μl)** | **Total Amount(ng)** |
| A1 | 299 | 5.09 | 25.8 | 10 | 50.9 |
| A2 | 310 | 6.02 | 29.4 | 10 | 60.2 |
| B1 | 306 | 5.81 | 28.8 | 10 | 58.1 |
| B2 | 275 | 5.61 | 30.9 | 10 | 56.1 |

**Supplementary Table 3. Analysis of Sequencing Reads**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Raw Reads** | **Q30** | **Clean Reads** | **Clean Ratio** | **Mapped Reads** | **Mapped Ratio** | **CircRNA Number** |
| A1 | 83,597,758 | 93.75% | 83,514,968 | 99.90% | 74,611,190 | 89.34% | 2052 |
| A2 | 100,327,034 | 94.18% | 100,202,554 | 99.88% | 89,675,186 | 89.49% | 2485 |
| B1 | 95,908,420 | 94.40% | 95,781,818 | 99.87% | 87,512,128 | 91.37% | 3493 |
| B2 | 102,744,612 | 93.60% | 102,457,788 | 99.72% | 88,841,466 | 86.71% | 2066 |

**Supplementary Table 4.** **Primer sequences used in this study**

|  |  |
| --- | --- |
| **Transcript ID** | **Primer Sequence** |
| **Up-regulated circRNAs:** |  |
| hsa\_circ\_0000419 | F: 5’- GCTGTTCTGGAGGCTGTGGA-3’  R: 5’- CGTCCTGTCCATTGTGGGCT-3’ |
| hsa\_circ\_0001523 | F: 5’- TCTTGGGCCCTGTGAACCTG-3’  R: 5’- GGCGCTGGCACTGTAAACAG-3’ |
| hsa\_circ\_0000825 | F: 5’- ACAGGCCCTCCAGAATGAGC-3’  R: 5’- TTCTCGCCGAAGTTCCTGCA-3’ |
| chrM:14131-15754+ | F: 5’- GCCGCAGACCTCCTCATTCT-3’  R: 5’-AGGAGAGGGGTCAGGGTTGA-3’ |
| **Down-regulated circRNAs:** |  |
| chrM:14131-15754- | F: 5’-AGGAGAGGGGTCAGGGTTGA-3’  R: 5’- GCCGCAGACCTCCTCATTCT-3’ |
| **Common-expressed circRNAs:** |  |
| circFBXW7 | F: 5’- CAGTGTCACGAACTCCAGTA-3’  R: 5’- CACATTCCTCTGACCCAGTA-3’ |
| Linear RNAs: |  |
| FBXW7 | F: 5’-TTACAAAAACAAAATCCGGAGTCT-3’  R: 5’-TTTTCCTCTTCCTGGGTCTT-3’ |
| **Housekeeping gene:** |  |
| GAPDH | F: 5’-CACTAGGCGCTCACTGTTCTC-3’  R: 5’-GACTCCACGACGTACTCAGC-3’ |
| β-actin | F: 5’-ACAGAGCCTCGCCTTTGCCGAT-3’  R: 5’- CTTGCACATGCCGGAGCCGTT-3’ |
| 18S | F: 5’- GGCCCTGTAATTGGAATGATGC-3’  R: 5’- CCAAGATCCAACTACGAGCTT-3’ |