Supplementary TableS1 Primers of the RNAs

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| RNA | 　 | primer |
| HDC | F | TACTGGGTTCTGGGTCAAGG |
| R | GAATTTCAAAGGAAGGGTCGT |
| S100A9 | F | TCATCAACACCTTCCACCAAT |
| R | TCACCCTCGTGCATCTTCTC |
| GATA2 | F | TCCTGACCCTAGCACCACG |
| R | GGGACTGCCACTTTCCATCT |
| NTRK1 | F | TCCAACACGGAGGCAATC |
| R | AGCCCAGGACATCCAGGTAG |
| FRZB | F | AGATGCCCAACCACCTGC |
| R | CACGCCCCTGTCGTACACT |
| KRT1 | F | ATTTGCCTCCTTCATTGACAAG |
| R | GTTCCGAATCCAACCGAGA |
| hsa-miR-595 | F | AGTGTGCCGTGGTGTGTCTAA |
| R | TTTTTTTAGACACACCACGGC |
| hsa-miR-575 | F | GAGCCAGGGACAGGAGCA |
| R | TTTTTTTGCTCCTGTCCCTG |
| hsa-miR-1238-5p | F | GTGAGTGGGAGCCCCAGTG |
| R | ACTGGGGCTCCCACTCAC |
| hsa-miR-718 | F | CTTCCGCCCCGCCG |
| R | TTTTTTTTTTTTTCGACGCC |
| hsa-miR-4534 | F | GGATGGAGGAGGGGTCTAAA |
| R | TTTAGACCCCTCCTCCATCC |
| hsa-miR-3937 | F | ACAGGCGGCTGTAGCAATG |
| R | CATTGCTACAGCCGCCTGT |
| hsa\_circ\_0014220 | F | GCTGGGGCCAAATAAAGTCT |
| R | GTTCCAGCTGCGACATTTTG |
| hsa\_circ\_0071253 | F | GATCTTACCCGTGACAAAATGTG |
| R | TTGGTTCCTTGGGTCCTGG |
| hsa\_circ\_0069475 | F | CCACCTTGGGCATGTCATCT |
| R | CCACACAACGCTTGGAACG |
| hsa\_circ\_0026463 | F | AGGTCTTAAACTCCCCATTTCCT |
| R | GCTGCCACCTCCACTGAT |
| hsa\_circ\_0029644 | F | GGCAGAAGACCTCCAGTACA |
| R | TTCATCTGTCTCTGGAGCCA |
| hsa\_circ\_0025413 | F | AAGTCAGCAGCAACCATGTC |
| R | GCATAGATGAGCAACCGAGC |
| hsa\_circ\_0008847 | F | GGAGTGGAGAACATGCACAA |
| R | AAGGCAAAGAGTTGGCACAC |
| NR\_003672 | F | CCAGGTAAGAGGTGAGGCGGAGG |
| R | CCACAGGCACAGCAGAGCAACT |
| lnc-SETD4-11 | F | GCTGCCACAGAACCCATAGTA |
| R | ACGCTTGAACACGCTGAATA |
| LINC00963 | F | TTTAGTAGAGACGGGGTTTCACT |
| R | TGGATCACAAGGTCAGGGG |
| RPPH1 | F | ACTCCACTCCCATGTCCCTT |
| R | TGCCCAGTCTGACCTCGC |
| lnc-GRIA3-2:1 | F | CAGATCCTCAATCAAGCCAAGA |
| R | CATACAGTGCTGCTCCAGTACCT |
| Actin | F | AGCCTTCCTTCCTGGGTATG |
| R | GAGGTCTTTACGGATGTCAACG |
| U6 | F | CTCGCTTCGGCAGCACA |
| R | AACGCTTCACGAATTTGCGT |
| SFRP5 | F | CCAGTGACTTTGTGGTCAAAAT |
| R | CTTCTTTTTCTGGGCTCCAATC |
| SLC45A3 | F | CATGACCTTCACGCTGTTTTAC |
| R | AACGCCTTCATCATAGTGTCTC |
| has\_circ\_0007334 | F | GGAGTGGAGAACATGCACAA |
| R | AAGGCAAAGAGTTGGCACAC |
| has\_circ\_0014221 | F | CCTGCCTCTACCCAACCAGG |
| R | CTCCTCGAAGCTCAGCTGCT |
| has\_circ\_0014220 | F | TGTCTTGGCTGTGGGGCTAG |
| R | TGGTTCAGGGTGTCTGGGTG |
| has\_circ\_0087100 | F | TGGGCACGTTCGTTTACAGC |
| R | GCATCCCAATCCTGCCCCTA |
| ENST00000518822 | F | ATCGATACAGAGCATCTGCACTG |
| R | GGTCCAAGGCCGACTATACC |
| Il-6 (mouse) | F | CAGTTGCCTTCTTGGG |
| R | AGACAGGTCTGTTGGGAG |
| Tnf-a (mouse) | F | TAACTTAGAAAGGGGATTATGGCT |
| R | T GGAAAGGTCTGAAGGTAGGAA |
| Ifn-γ (mouse) | F | GACATGAAAATCCTGCAGAGC |
| R | TGAGCTCATTGAATGCTTGG |
| Hdc (mouse) | F | TTAAGCTGTGGTTTGTGATTCG |
| R | CTGTGAGACAATTAGGACCCTT |
| S100a9 (mouse) | F | CACAGTTGGCAACCTTTATGAA |
| R | TCATACACTCCTCAAAGCTCAG |
| Gata2 (mouse) | F | CACAAGATGAATGGACAGAACC |
| R | ACATTGTGCAGCTTGTAGTAGA |
| Slc45a3 (mouse) | F | GTTCCTGTTGTCCTGTGTCCTGTG |
| R | TCGTTCTGTAAGTCCTGCGTTCTTC |

Supplementary Table S2**.** Demographic and clinical characteristics of mental healthy volunteers and depression patients.

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|  | healthy volunteers (n=27) | Depression patients (n=26) |
|
| Age | 47.10±10.38 | 52.32±12.90 |
| Sex (n(%)) |
| -Females | 13(48.15%) | 11(42.31%) |
| -Males | 14(51.85%) | 15(57.69%) |
| Length of disease(years, means) |   | 8.70±6.91 |
| HAMD24 score | 0.45±0.99 | 41.41±11.34\*\* |
| Total Life Events score | 24.56±10.21 | 33.34±12.77\* |
| Negative Life Events score | 15.87±9.98 | 36.79±10.26\*\* |

\*P<0.05, \*\*p<0.01 compared to mental healthy volunteers.