**Supplementary Table 2**. miRNAs displaying an age-associated change in serum abundance that is NOT antagonized by caloric restriction1.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **miRNA** | **Young (cpm)2** | **Old (cpm)2** | **CR (cpm)2** | **Age FC3** | **Age p-value** | **CR FC3** | **CR p-value** |
| mmu-miR-1843b-3p | 8 | 39 | 27 | 4.6 | 5.4E-03 | -1.4 | 1.4E-01 |
| mmu-miR-375-3p | 410 | 2484 | 1648 | 6.1 | 7.6E-06 | -1.5 | 1.3E-01 |
| mmu-miR-330-3p | 10 | 34 | 23 | 3.5 | 3.4E-02 | -1.5 | 2.9E-01 |
| mmu-miR-423-5p | 1758 | 8095 | 5012 | 4.6 | 8.9E-05 | -1.6 | 8.9E-02 |
| mmu-miR-151-3p | 1540 | 4646 | 2346 | 3.0 | 1.8E-02 | -2.0 | 7.0E-01 |
| mmu-miR-744-5p | 308 | 1069 | 512 | 3.5 | 8.4E-03 | -2.1 | 6.8E-01 |
| mmu-miR-1964-3p | 28 | 86 | 40 | 3.1 | 3.8E-02 | -2.2 | 9.9E-01 |
| mmu-miR-664-5p | 7 | 38 | 15 | 5.8 | 1.9E-04 | -2.5 | 5.8E-01 |
| mmu-miR-511-5p | 10 | 44 | 17 | 4.3 | 9.5E-03 | -2.5 | 8.4E-01 |
| mmu-miR-1249-3p | 21 | 185 | 73 | 8.7 | 1.3E-05 | -2.5 | 8.8E-01 |
| mmu-miR-361-5p | 55 | 161 | 63 | 2.9 | 4.3E-02 | -2.5 | 5.7E-01 |
| mmu-miR-3473d | 6 | 25 | 10 | 4.2 | 1.3E-02 | -2.6 | 7.8E-01 |
| mmu-miR-423-3p | 590 | 3366 | 1226 | 5.7 | 6.7E-06 | -2.7 | 3.7E-01 |
| mmu-miR-425-3p | 6 | 26 | 9 | 4.3 | 1.1E-02 | -2.9 | 3.0E-01 |
| mmu-miR-1981-5p | 14 | 74 | 25 | 5.1 | 9.8E-04 | -3.0 | 5.1E-01 |
| mmu-miR-877-5p | 10 | 43 | 14 | 4.4 | 2.0E-03 | -3.0 | 3.0E-01 |
| mmu-miR-877-3p | 4 | 22 | 7 | 5.7 | 1.7E-03 | -3.0 | 3.6E-01 |
| mmu-miR-671-3p | 18 | 84 | 27 | 4.7 | 4.5E-04 | -3.1 | 2.2E-01 |
| mmu-miR-5119 | 2 | 18 | 6 | 11.9 | 1.4E-05 | -3.1 | 2.5E-01 |
| mmu-miR-6243 | 20 | 74 | 23 | 3.8 | 7.6E-03 | -3.2 | 1.2E-01 |
| mmu-miR-150-5p | 2167 | 10809 | 3360 | 5.0 | 9.6E-06 | -3.2 | 1.1E-01 |
| mmu-miR-99b-3p | 7 | 31 | 10 | 4.4 | 1.1E-02 | -3.2 | 1.9E-01 |
| mmu-miR-92b-3p | 64 | 288 | 83 | 4.5 | 9.2E-04 | -3.5 | 9.4E-02 |
| mmu-miR-28a-3p | 20 | 68 | 19 | 3.4 | 2.6E-02 | -3.6 | 6.4E-02 |
| mmu-miR-187-3p | 6 | 34 | 9 | 5.8 | 6.7E-04 | -3.7 | 1.6E-01 |
| mmu-miR-615-3p | 4 | 15 | 4 | 3.7 | 4.3E-02 | -3.7 | 7.3E-02 |
| mmu-miR-5124a | 3 | 24 | 6 | 8.5 | 2.2E-04 | -3.9 | 6.3E-02 |
| mmu-miR-150-3p | 6 | 69 | 17 | 12.1 | 3.7E-08 | -4.1 | 6.0E-02 |
| mmu-miR-106b-3p | 791 | 355 | 509 | -2.2 | 3.3E-06 | 1.4 | 8.7E-06 |
| mmu-miR-15a-3p | 18 | 7 | 10 | -2.6 | 9.7E-05 | 1.3 | 1.6E-03 |
| mmu-miR-98-5p | 131 | 18 | 24 | -7.2 | 1.4E-11 | 1.3 | 9.3E-04 |
| mmu-miR-15b-3p | 103 | 50 | 65 | -2.1 | 4.2E-05 | 1.3 | 1.7E-04 |
| mmu-miR-144-5p | 64 | 26 | 33 | -2.5 | 1.3E-06 | 1.3 | 1.9E-04 |
| mmu-miR-181c-5p | 774 | 390 | 493 | -2.0 | 2.4E-06 | 1.3 | 7.9E-05 |
| mmu-miR-106b-5p | 473 | 164 | 206 | -2.9 | 1.3E-08 | 1.3 | 4.5E-05 |
| mmu-let-7i-5p | 3582 | 1479 | 1775 | -2.4 | 3.5E-08 | 1.2 | 4.5E-05 |
| mmu-let-7j | 897 | 429 | 512 | -2.1 | 1.3E-06 | 1.2 | 8.9E-05 |
| mmu-miR-93-5p | 3750 | 1750 | 2040 | -2.1 | 1.5E-06 | 1.2 | 7.0E-05 |
| mmu-let-7d-5p | 333 | 169 | 196 | -2.0 | 5.4E-06 | 1.2 | 9.0E-05 |
| mmu-miR-186-5p | 2053 | 912 | 1042 | -2.3 | 3.8E-07 | 1.1 | 1.2E-04 |
| mmu-miR-16-5p | 31684 | 12292 | 13872 | -2.6 | 1.1E-07 | 1.1 | 1.5E-04 |
| mmu-miR-499-5p | 32 | 2 | 2 | -15.5 | 3.6E-15 | 1.1 | 1.9E-02 |
| mmu-miR-15b-5p | 135 | 82 | 91 | -1.6 | 5.7E-05 | 1.1 | 2.2E-04 |
| mmu-miR-17-5p | 100 | 61 | 62 | -1.6 | 1.1E-04 | 1.0 | 1.0E-03 |
| mmu-miR-18a-5p | 20 | 14 | 14 | -1.5 | 3.5E-03 | 1.0 | 6.4E-03 |
| mmu-miR-421-3p | 354 | 202 | 202 | -1.8 | 2.5E-04 | -1.0 | 2.7E-03 |
| mmu-miR-15a-5p | 1148 | 609 | 603 | -1.9 | 1.8E-05 | -1.0 | 1.1E-03 |
| mmu-miR-20a-5p | 38 | 21 | 21 | -1.8 | 5.1E-05 | -1.0 | 2.6E-03 |
| mmu-miR-350-3p | 14 | 7 | 7 | -2.0 | 4.0E-04 | -1.0 | 1.8E-02 |
| mmu-miR-30e-5p | 8888 | 6012 | 5853 | -1.5 | 2.3E-05 | -1.0 | 2.3E-04 |
| mmu-let-7g-5p | 1510 | 581 | 520 | -2.6 | 2.2E-08 | -1.1 | 2.8E-03 |
| mmu-miR-30c-5p | 1616 | 851 | 758 | -1.9 | 1.6E-06 | -1.1 | 1.6E-03 |
| mmu-let-7c-5p | 2026 | 1265 | 1081 | -1.6 | 9.8E-05 | -1.2 | 5.6E-03 |
| mmu-miR-133b-3p | 131 | 18 | 15 | -7.4 | 3.2E-17 | -1.2 | 1.3E-02 |
| mmu-miR-378a-5p | 45 | 13 | 11 | -3.5 | 6.6E-08 | -1.2 | 3.7E-02 |
| mmu-miR-374b-5p | 19 | 6 | 5 | -3.1 | 2.8E-06 | -1.2 | 6.0E-02 |
| mmu-miR-133a-3p | 6211 | 1715 | 1331 | -3.6 | 1.7E-12 | -1.3 | 9.5E-03 |
| mmu-miR-142-3p | 127 | 79 | 60 | -1.6 | 1.7E-04 | -1.3 | 3.7E-02 |
| mmu-miR-26b-5p | 271 | 106 | 76 | -2.5 | 9.0E-08 | -1.4 | 5.2E-02 |
| mmu-miR-3969 | 114 | 44 | 6 | -2.6 | 2.5E-03 | -7.8 | 2.8E-03 |
| mmu-miR-3964 | 19 | 8 | 1 | -2.4 | 1.4E-03 | -6.2 | 4.2E-03 |
| mmu-miR-1a-3p | 11 | 1 | 0 | -8.5 | 2.5E-06 | -6.3 | 1.1E-01 |
| mmu-miR-340-5p | 83 | 55 | 35 | -1.5 | 9.9E-05 | -1.6 | 2.0E-01 |
| mmu-miR-378d | 677 | 254 | 82 | -2.7 | 3.1E-06 | -3.1 | 2.5E-01 |
| mmu-miR-195a-5p | 27 | 17 | 5 | -1.6 | 5.2E-04 | -3.3 | 2.6E-01 |
| mmu-miR-296-5p | 12 | 8 | 5 | -1.5 | 1.7E-02 | -1.7 | 2.8E-01 |
| mmu-miR-34c-5p | 26 | 10 | 2 | -2.6 | 5.2E-03 | -4.6 | 2.8E-01 |
| mmu-miR-30e-3p | 50 | 26 | 13 | -1.9 | 7.5E-06 | -2.0 | 6.2E-01 |
| mmu-miR-490-3p | 20 | 9 | 5 | -2.1 | 3.2E-04 | -2.0 | 7.3E-01 |
| mmu-miR-133a-5p | 10 | 3 | 1 | -3.6 | 8.7E-07 | -2.3 | 8.8E-01 |
| mmu-miR-208a-3p | 21 | 3 | 2 | -6.3 | 6.1E-10 | -2.0 | 8.8E-01 |
| mmu-miR-378b | 13 | 8 | 3 | -1.7 | 8.9E-04 | -2.6 | 1.0E+00 |

1Changes were considered significant if the fold change ≥ 1.5 and the p-value < 0.05.

2Average miRNA read count for the indicated experimental group reported as counts per million (cpm) reads in the sequenced library.

3Fold change calculated by EdgeR from pairwise comparisons between the young and old control groups for the age effect, or between the old control and old CR groups for the CR effect.