**Supplementary Table S3. Differential expressed miRNA identified by edgeR package.**

|  |  |  |  |
| --- | --- | --- | --- |
| **MiRNA** | **Status** | **logFC** | **PValue** |
| ocu-miR-12092-5p | UP | 4.48  | 1.45E-07 |
| ocu-miR-196b-5p | DOWN | -6.33  | 5.61E-06 |
| ocu-miR-424-5p | UP | 3.33  | 1.39E-05 |
| ocu-miR-450a-5p | UP | 3.24  | 3.91E-05 |
| ocu-miR-542-3p | UP | 3.28  | 4.72E-05 |
| ocu-miR-204-5p | DOWN | -2.60  | 7.37E-05 |
| ocu-miR-128b-3p | DOWN | -3.56  | 7.88E-05 |
| ocu-miR-128a-3p | DOWN | -3.56  | 9.74E-05 |
| ocu-miR-21-5p | UP | 2.23  | 0.0001  |
| ocu-miR-34a-5p | UP | 2.45  | 0.0002  |
| ocu-miR-12092-3p | UP | 3.50  | 0.0003  |
| ocu-miR-424-3p | UP | 2.61  | 0.0003  |
| ocu-miR-889-3p | UP | 2.21  | 0.0004  |
| ocu-miR-335-5p | UP | 2.35  | 0.0004  |
| ocu-miR-672-5p | DOWN | -3.20  | 0.0004  |
| ocu-miR-25-3p | DOWN | -2.14  | 0.0005  |
| ocu-miR-199a-5p | UP | 1.85  | 0.0006  |
| ocu-miR-411-5p | UP | 2.22  | 0.0006  |
| ocu-miR-200c-3p | DOWN | -4.57  | 0.0006  |
| ocu-miR-196a-5p | DOWN | -4.50  | 0.0007  |
| ocu-miR-141-3p | DOWN | -4.91  | 0.0007  |
| ocu-miR-182-5p | DOWN | -2.61  | 0.0007  |
| ocu-miR-503-3p | UP | 5.34  | 0.0010  |
| ocu-miR-205-5p | DOWN | -5.67  | 0.0011  |
| ocu-miR-487a-3p | UP | 2.67  | 0.0011  |
| ocu-miR-127-5p | UP | 2.11  | 0.0012  |
| ocu-miR-122-5p | UP | 5.28  | 0.0015  |
| ocu-miR-214-3p | UP | 1.88  | 0.0021  |
| ocu-miR-1-3p | DOWN | -1.95  | 0.0022  |
| ocu-miR-183-5p | DOWN | -2.33  | 0.0024  |
| ocu-miR-377-3p | UP | 2.52  | 0.0027  |
| ocu-miR-450a-2-3p | UP | 2.66  | 0.0028  |
| ocu-miR-214-5p | UP | 1.94  | 0.0030  |
| ocu-miR-190a-5p | DOWN | -2.34  | 0.0030  |
| ocu-miR-15b-3p | DOWN | -2.14  | 0.0031  |
| ocu-miR-136-3p | UP | 1.88  | 0.0031  |
| ocu-miR-451-5p | DOWN | -2.17  | 0.0041  |
| ocu-miR-130b-3p | DOWN | -3.28  | 0.0042  |
| ocu-miR-450b-5p | UP | 2.58  | 0.0042  |
| ocu-miR-92a-3p | DOWN | -1.90  | 0.0043  |
| ocu-miR-96-5p | DOWN | -2.27  | 0.0045  |
| ocu-miR-655-3p | UP | 1.79  | 0.0046  |
| ocu-miR-539-3p | UP | 2.18  | 0.0047  |
| ocu-miR-432-5p | UP | 2.00  | 0.0047  |
| ocu-miR-363-5p | DOWN | -2.82  | 0.0049  |
| ocu-miR-299-3p | UP | 1.73  | 0.0050  |
| ocu-miR-154-5p | UP | 1.97  | 0.0053  |
| ocu-miR-135a-5p | DOWN | -2.23  | 0.0056  |
| ocu-miR-656-3p | UP | 1.79  | 0.0057  |
| ocu-miR-486-5p | DOWN | -1.92  | 0.0057  |
| ocu-miR-93-5p | DOWN | -1.71  | 0.0067  |
| ocu-miR-449a-5p | UP | 1.84  | 0.0083  |
| ocu-miR-181a-3p | DOWN | -2.63  | 0.0083  |
| ocu-miR-363-3p | DOWN | -2.02  | 0.0085  |
| ocu-miR-21-3p | UP | 3.07  | 0.0089  |
| ocu-miR-7a-5p | DOWN | -1.54  | 0.0089  |
| ocu-miR-199a-3p | UP | 1.41  | 0.0091  |
| ocu-miR-154-3p | UP | 1.91  | 0.0094  |
| ocu-miR-539-5p | UP | 1.94  | 0.0103  |
| ocu-miR-134-5p | UP | 1.84  | 0.0113  |
| ocu-miR-376a-3p | UP | 1.80  | 0.0120  |
| ocu-miR-409-5p | UP | 1.57  | 0.0123  |
| ocu-miR-215-5p | DOWN | -2.21  | 0.0129  |
| ocu-miR-143-3p | DOWN | -1.51  | 0.0130  |
| ocu-miR-141-5p | DOWN | -3.71  | 0.0132  |
| ocu-miR-487b-3p | UP | 1.64  | 0.0132  |
| ocu-miR-142-5p | DOWN | -2.19  | 0.0141  |
| ocu-miR-20b-5p | DOWN | -2.07  | 0.0146  |
| ocu-miR-497-5p | UP | 1.60  | 0.0148  |
| ocu-miR-18a-3p | DOWN | -2.03  | 0.0149  |
| ocu-miR-450a-3p | UP | 2.57  | 0.0160  |
| ocu-miR-29a-5p | UP | 2.20  | 0.0160  |
| ocu-miR-145-3p | DOWN | -1.41  | 0.0166  |
| ocu-miR-503-5p | UP | 2.11  | 0.0166  |
| ocu-miR-106b-3p | DOWN | -1.64  | 0.0170  |
| ocu-miR-541-5p | UP | 2.50  | 0.0173  |
| ocu-miR-106a-5p | DOWN | -1.97  | 0.0177  |
| ocu-miR-20a-5p | DOWN | -1.66  | 0.0191  |
| ocu-miR-15b-5p | DOWN | -1.78  | 0.0192  |
| ocu-miR-370-3p | UP | 1.49  | 0.0199  |
| ocu-miR-383-5p | DOWN | -1.62  | 0.0199  |
| ocu-miR-181b-3p | DOWN | -2.69  | 0.0200  |
| ocu-miR-33a-5p | DOWN | -3.39  | 0.0211  |
| ocu-miR-142-3p | DOWN | -2.33  | 0.0214  |
| ocu-miR-130b-5p | DOWN | -2.42  | 0.0215  |
| ocu-miR-136-5p | UP | 1.79  | 0.0219  |
| ocu-miR-181b-5p | DOWN | -1.85  | 0.0223  |
| ocu-miR-410-3p | UP | 1.58  | 0.0235  |
| ocu-miR-302a-5p | DOWN | -2.64  | 0.0241  |
| ocu-miR-145-5p | DOWN | -1.54  | 0.0267  |
| ocu-miR-342-3p | DOWN | -1.85  | 0.0267  |
| ocu-miR-211-5p | UP | 1.62  | 0.0279  |
| ocu-miR-411-3p | UP | 1.49  | 0.0282  |
| ocu-miR-19b-3p | DOWN | -1.64  | 0.0310  |
| ocu-miR-204-3p | DOWN | -1.44  | 0.0318  |
| ocu-miR-190b-5p | DOWN | -2.58  | 0.0324  |
| ocu-miR-377-5p | UP | 2.31  | 0.0334  |
| ocu-miR-7a-3p | DOWN | -1.41  | 0.0334  |
| ocu-miR-181d-3p | UP | 2.43  | 0.0334  |
| ocu-miR-671-3p | DOWN | -1.67  | 0.0339  |
| ocu-miR-337-5p | UP | 2.14  | 0.0347  |
| ocu-miR-1298-5p | DOWN | -1.74  | 0.0348  |
| ocu-miR-31-3p | UP | 1.82  | 0.0363  |
| ocu-miR-181a-5p | DOWN | -1.59  | 0.0364  |
| ocu-miR-181a-2-3p | DOWN | -1.63  | 0.0385  |
| ocu-miR-16b-3p | DOWN | -1.65  | 0.0387  |
| ocu-miR-382-3p | UP | 1.38  | 0.0398  |
| ocu-miR-17-5p | DOWN | -1.58  | 0.0419  |
| ocu-miR-455-3p | UP | 1.34  | 0.0425  |
| ocu-miR-133a-5p | DOWN | -1.55  | 0.0431  |
| ocu-miR-299-5p | UP | 1.48  | 0.0438  |
| ocu-miR-22-5p | UP | 1.20  | 0.0471  |
| ocu-miR-194-5p | DOWN | -1.53  | 0.0475  |