

Table S1. Circulating miRNA expression in OB and PWS subjects

| II quantile serum miRNAs | | |
|--------------------------|---------------------|----------------------|
| miRNA ID | Log2 avg. signal OB | Log2 avg. Signal PWS |
| hsa-miR-27a-3p | 2.11 ± 1.73 | 1.19 ± 1.19 |
| hsa-let-7d-5p | 2.02 ± 1.58 | 1.44 ± 0.91 |
| hsa-miR-342-3p | 1.99 ± 1.50 | 1.28 ± 0.98 |
| hsa-miR-15b-5p | 1.96 ± 1.63 | 1.23 ± 1.05 |
| hsa-miR-126-3p | 1.96 ± 1.43 | 1.22 ± 1.21 |
| hsa-miR-652-3p | 1.83 ± 1.46 | 1.25 ± 0.77 |
| hsa-miR-1228-3p | 1.76 ± 0.26 | 1.60 ± 0.53 |
| hsa-miR-143-3p | 1.62 ± 1.08 | 1.15 ± 0.79 |
| hsa-let-7a-5p | 1.56 ± 1.21 | 1.06 ± 0.64 |
| hsa-miR-940 | 1.52 ± 0.44 | 1.49 ± 0.40 |
| hsa-let-7i-5p | 1.49 ± 0.75 | 1.26 ± 0.96 |
| hsa-miR-20b-5p | 1.48 ± 1.09 | 1.14 ± 0.94 |
| hsa-miR-181a-5p | 1.48 ± 0.70 | 1.12 ± 0.49 |
| hsa-miR-6836-3p | 1.48 ± 0.47 | 1.32 ± 0.41 |
| hsa-miR-18a-5p | 1.46 ± 0.90 | 1.10 ± 0.65 |
| hsa-miR-210-5p | 1.46 ± 0.49 | 1.37 ± 0.32 |
| hsa-miR-6796-5p | 1.45 ± 0.29 | 1.32 ± 0.29 |
| hsa-miR-106b-3p | 1.44 ± 0.65 | 0.92 ± 0.55 |
| hsa-miR-6796-3p | 1.40 ± 0.27 | 1.30 ± 0.34 |
| hsa-miR-1910-5p | 1.39 ± 0.35 | 1.24 ± 0.45 |
| hsa-miR-1260b | 1.38 ± 0.36 | 1.14 ± 0.31 |
| hsa-miR-4701-5p | 1.37 ± 0.47 | ND |
| hsa-miR-6798-3p | 1.37 ± 0.44 | 1.29 ± 0.29 |
| hsa-miR-671-5p | 1.37 ± 0.38 | 1.47 ± 0.36 |
| hsa-miR-1263 | 1.35 ± 0.40 | 1.09 ± 0.40 |
| hsa-miR-345-5p | 1.34 ± 0.43 | 1.01 ± 0.36 |
| hsa-miR-502-3p | 1.33 ± 0.47 | 1.08 ± 0.31 |
| hsa-miR-6727-3p | 1.32 ± 0.35 | 1.22 ± 0.40 |
| hsa-miR-6510-5p | 1.32 ± 0.23 | 1.38 ± 0.41 |
| hsa-miR-222-3p | 1.31 ± 0.73 | 1.05 ± 0.78 |
| hsa-miR-3937 | 1.30 ± 0.54 | 1.51 ± 0.39 |
| hsa-miR-1234-3p | 1.29 ± 0.45 | 1.18 ± 0.39 |
| hsa-miR-548ae | 1.29 ± 0.38 | 0.98 ± 0.24 |
| hsa-miR-6797-3p | 1.29 ± 0.35 | 1.22 ± 0.47 |
| hsa-miR-532-5p | 1.28 ± 0.36 | 0.95 ± 0.29 |
| hsa-miR-7154-5p | 1.28 ± 0.16 | 1.17 ± 0.19 |
| hsa-miR-744-5p | 1.27 ± 0.55 | 1.23 ± 0.58 |
| hsa-miR-3162-5p | 1.27 ± 0.31 | 1.18 ± 0.29 |
| hsa-miR-1225-5p | 1.26 ± 0.64 | 1.48 ± 0.78 |
| hsa-miR-6757-5p | 1.26 ± 0.28 | 1.12 ± 0.39 |
| hsa-miR-6766-3p | 1.25 ± 0.28 | 1.18 ± 0.30 |
| hsa-miR-382-5p | 1.24 ± 0.69 | 0.95 ± 0.25 |
| hsa-miR-6075 | 1.24 ± 0.40 | 1.20 ± 0.24 |
| hsa-miR-4717-3p | 1.24 ± 0.24 | 1.34 ± 0.37 |

| | | |
|------------------|-------------|-------------|
| hsa-miR-6892-3p | 1.24 ± 0.21 | 1.37 ± 0.33 |
| hsa-miR-6785-3p | 1.23 ± 0.32 | 1.30 ± 0.31 |
| hsa-miR-6879-3p | 1.23 ± 0.23 | 1.13 ± 0.26 |
| hsa-miR-6800-3p | 1.22 ± 0.50 | 1.37 ± 0.42 |
| hsa-miR-6880-3p | 1.22 ± 0.49 | 1.12 ± 0.29 |
| hsa-let-7f-1-3p | 1.22 ± 0.44 | 0.86 ± 0.29 |
| hsa-miR-4529-3p | 1.22 ± 0.39 | 1.30 ± 0.20 |
| hsa-miR-4323 | 1.22 ± 0.26 | 1.11 ± 0.27 |
| hsa-miR-1306-5p | 1.21 ± 0.37 | 1.10 ± 0.26 |
| hsa-miR-6737-3p | 1.21 ± 0.14 | 1.26 ± 0.21 |
| hsa-miR-192-5p | 1.20 ± 0.47 | 1.09 ± 0.57 |
| hsa-miR-574-3p | 1.20 ± 0.43 | 1.05 ± 0.35 |
| hsa-miR-629-5p | 1.19 ± 0.37 | 1.19 ± 0.50 |
| hsa-miR-6824-5p | 1.19 ± 0.29 | 1.47 ± 0.46 |
| hsa-miR-1249 | 1.18 ± 0.37 | 1.17 ± 0.19 |
| hsa-miR-1260a | 1.18 ± 0.22 | 1.01 ± 0.30 |
| hsa-miR-4722-3p | 1.17 ± 0.17 | 1.50 ± 0.36 |
| hsa-miR-194-5p | 1.16 ± 0.61 | 1.10 ± 0.70 |
| hsa-miR-4690-5p | 1.16 ± 0.30 | 1.43 ± 0.31 |
| hsa-miR-6879-5p | 1.16 ± 0.26 | 1.48 ± 0.47 |
| hsa-miR-548x-3p | 1.16 ± 0.17 | 1.09 ± 0.29 |
| hsa-miR-27b-3p | 1.15 ± 0.39 | 0.90 ± 0.52 |
| hsa-miR-7975 | 1.15 ± 0.34 | 0.91 ± 0.30 |
| hsa-miR-3679-5p | 1.15 ± 0.33 | 1.21 ± 0.22 |
| hsa-miR-7845-5p | 1.15 ± 0.20 | 1.16 ± 0.19 |
| hsa-miR-1272 | 1.14 ± 0.33 | 1.03 ± 0.37 |
| hsa-miR-3945 | 1.13 ± 0.38 | 1.01 ± 0.30 |
| hsa-miR-642a-3p | 1.13 ± 0.27 | 0.95 ± 0.28 |
| hsa-miR-6778-5p | 1.13 ± 0.27 | 1.14 ± 0.31 |
| hsa-miR-503-5p | 1.12 ± 0.37 | 1.27 ± 0.35 |
| hsa-miR-3201 | 1.12 ± 0.35 | 0.95 ± 0.18 |
| hsa-miR-6511a-3p | 1.12 ± 0.27 | 1.10 ± 0.33 |
| hsa-miR-210-3p | 1.11 ± 0.43 | 1.14 ± 0.39 |
| hsa-miR-6802-5p | 1.11 ± 0.38 | 1.32 ± 0.50 |
| hsa-miR-4440 | 1.10 ± 0.14 | 1.36 ± 0.30 |
| hsa-miR-548aj-3p | 1.09 ± 0.21 | 1.20 ± 0.38 |
| hsa-miR-4253 | 1.08 ± 0.33 | 1.24 ± 0.50 |
| hsa-miR-1298-3p | 1.08 ± 0.21 | ND |
| hsa-miR-30a-5p | 1.07 ± 0.51 | 0.82 ± 0.32 |
| hsa-miR-10b-5p | 1.07 ± 0.22 | 1.08 ± 0.17 |
| hsa-miR-5681a | 1.06 ± 0.28 | 1.25 ± 0.25 |
| hsa-miR-6790-5p | 1.05 ± 0.36 | 1.01 ± 0.34 |
| hsa-miR-584-3p | 1.05 ± 0.29 | 1.47 ± 0.43 |
| hsa-miR-664a-3p | 1.05 ± 0.25 | 1.11 ± 0.26 |
| hsa-miR-4776-5p | 1.05 ± 0.23 | 1.00 ± 0.36 |
| hsa-miR-7106-3p | 1.05 ± 0.15 | 1.02 ± 0.39 |
| hsa-miR-548ac | 1.04 ± 0.20 | 1.05 ± 0.26 |

| | | |
|-------------------|-------------|-------------|
| hsa-miR-6127 | 1.04 ± 0.16 | 1.43 ± 0.44 |
| hsa-miR-6849-5p | 1.03 ± 0.28 | 1.22 ± 0.25 |
| hsa-miR-145-5p | 1.02 ± 0.44 | 0.88 ± 0.46 |
| hsa-miR-1323 | 1.02 ± 0.30 | 1.03 ± 0.37 |
| hsa-miR-4743-5p | 1.02 ± 0.27 | 1.07 ± 0.38 |
| hsa-miR-7977 | 1.00 ± 0.35 | 1.03 ± 0.29 |
| hsa-miR-6826-5p | 1.00 ± 0.21 | 0.99 ± 0.28 |
| hsa-miR-8084 | 1.00 ± 0.17 | 0.91 ± 0.19 |
| hsa-miR-616-5p | 0.99 ± 0.31 | 1.00 ± 0.25 |
| hsa-miR-4486 | 0.99 ± 0.27 | 1.45 ± 0.43 |
| hsa-miR-550a-3-5p | 0.98 ± 0.33 | 0.79 ± 0.34 |
| hsa-miR-584-5p | 0.98 ± 0.33 | 1.27 ± 0.59 |
| hsa-miR-340-5p | 0.98 ± 0.28 | 0.97 ± 0.21 |
| hsa-miR-4781-3p | 0.98 ± 0.25 | 1.00 ± 0.22 |
| hsa-miR-3944-5p | 0.96 ± 0.29 | 0.90 ± 0.30 |
| hsa-miR-4780 | 0.96 ± 0.27 | 0.94 ± 0.21 |
| hsa-miR-4299 | 0.96 ± 0.23 | 1.19 ± 0.35 |
| hsa-miR-550b-2-5p | 0.96 ± 0.22 | 0.97 ± 0.27 |
| hsa-miR-1236-3p | 0.95 ± 0.20 | 0.99 ± 0.19 |
| hsa-miR-376c-3p | 0.95 ± 0.18 | 0.99 ± 0.23 |
| hsa-miR-19a-3p | 0.94 ± 0.41 | 0.92 ± 0.27 |
| hsa-miR-374a-5p | 0.94 ± 0.21 | ND |
| hsa-miR-2392 | 0.93 ± 0.32 | 1.23 ± 0.37 |
| hsa-miR-4430 | 0.93 ± 0.30 | 1.00 ± 0.29 |
| hsa-miR-4797-5p | 0.93 ± 0.30 | 0.92 ± 0.20 |
| hsa-miR-7111-5p | ND | 1.15 ± 0.36 |
| hsa-miR-3667-3p | 0.91 ± 0.18 | 0.84 ± 0.24 |
| hsa-miR-3605-3p | 0.90 ± 0.18 | 0.93 ± 0.30 |
| hsa-miR-769-5p | 0.89 ± 0.22 | 0.90 ± 0.23 |
| hsa-miR-573 | 0.89 ± 0.19 | 0.92 ± 0.21 |
| hsa-miR-4672 | 0.89 ± 0.17 | 0.96 ± 0.25 |
| hsa-miR-4756-3p | 0.88 ± 0.27 | 0.97 ± 0.16 |
| hsa-miR-3688-3p | 0.88 ± 0.15 | 0.93 ± 0.23 |
| hsa-miR-6783-5p | 0.87 ± 0.24 | 0.92 ± 0.16 |
| hsa-miR-4720-3p | 0.87 ± 0.19 | 0.93 ± 0.14 |
| hsa-miR-4476 | 0.84 ± 0.14 | 0.98 ± 0.38 |
| hsa-miR-8059 | 0.83 ± 0.28 | 1.00 ± 0.28 |
| hsa-miR-6505-3p | 0.83 ± 0.21 | 0.79 ± 0.09 |
| hsa-miR-4511 | 0.83 ± 0.17 | 0.86 ± 0.25 |
| hsa-miR-6871-5p | 0.82 ± 0.22 | 0.93 ± 0.25 |
| hsa-miR-28-5p | 0.82 ± 0.21 | 0.91 ± 0.17 |
| hsa-miR-4800-5p | ND | 0.96 ± 0.24 |
| hsa-miR-548ag | 0.82 ± 0.13 | 0.95 ± 0.15 |
| hsa-miR-3193 | 0.79 ± 0.25 | 0.84 ± 0.25 |
| hsa-miR-1279 | 0.78 ± 0.31 | 0.78 ± 0.15 |
| hsa-miR-6721-5p | 0.73 ± 0.22 | 0.99 ± 0.30 |
| hsa-miR-633 | 0.69 ± 0.09 | 0.88 ± 0.23 |

