

**Table S4.** Circulating miRNA expression in OB and PWS subjects

V quantile serum miRNAs		
miRNA ID	Log2 avg. signal OB	Log2 avg. signal PWS
hsa-miR-320a	8.14 ± 0.66	8.54 ± 0.64
hsa-miR-320b	7.83 ± 0.59	8.04 ± 0.70
hsa-miR-7704	7.58 ± 0.68	7.60 ± 0.64
hsa-miR-3960	7.57 ± 0.85	7.78 ± 0.68
hsa-miR-4532	7.56 ± 0.57	8.07 ± 0.69
hsa-miR-3665	7.48 ± 0.79	7.50 ± 0.51
hsa-miR-6089	7.42 ± 0.40	7.46 ± 0.60
hsa-miR-320c	7.32 ± 0.62	7.72 ± 0.65
hsa-miR-4484	7.20 ± 1.31	7.66 ± 1.38
hsa-miR-6090	7.17 ± 0.39	7.21 ± 0.51
hsa-miR-4787-5p	7.15 ± 0.82	7.19 ± 0.42
hsa-miR-6732-5p	6.92 ± 0.52	7.30 ± 0.50
hsa-miR-6087	6.75 ± 0.34	7.00 ± 0.44
hsa-miR-6869-5p	6.58 ± 0.71	6.37 ± 0.39
hsa-miR-6729-5p	6.24 ± 0.95	6.19 ± 0.68
hsa-miR-6125	6.22 ± 0.90	6.11 ± 0.90
hsa-miR-92a-3p	6.18 ± 2.39	4.23 ± 2.11
hsa-miR-4466	6.17 ± 0.92	6.26 ± 1.08
hsa-miR-122-5p	6.15 ± 2.39	3.52 ± 1.97
hsa-miR-4487	6.15 ± 0.52	6.22 ± 0.79
hsa-miR-6088	6.12 ± 0.43	6.18 ± 0.56
hsa-miR-8069	6.10 ± 0.74	6.10 ± 0.62
hsa-miR-185-5p	6.06 ± 1.67	5.63 ± 1.01
hsa-miR-5787	6.04 ± 0.31	6.74 ± 0.46
hsa-miR-638	6.03 ± 0.77	6.44 ± 0.45
hsa-miR-1915-3p	6.01 ± 0.87	6.07 ± 0.64
hsa-miR-486-5p	5.97 ± 1.76	5.33 ± 1.48
hsa-miR-2861	5.91 ± 0.64	6.08 ± 0.49
hsa-miR-8075	5.91 ± 0.58	6.80 ± 0.59
hsa-miR-4497	5.68 ± 1.09	6.87 ± 0.70
hsa-miR-7107-5p	5.66 ± 1.59	6.38 ± 0.58
hsa-miR-4516	5.51 ± 0.56	5.55 ± 0.44
hsa-miR-23a-3p	5.45 ± 2.59	2.99 ± 2.33
hsa-miR-6727-5p	5.39 ± 1.06	5.66 ± 0.82
hsa-miR-191-5p	5.30 ± 2.09	3.62 ± 1.81
hsa-miR-6724-5p	5.30 ± 0.87	5.26 ± 1.02
hsa-let-7b-5p	5.29 ± 2.60	3.20 ± 1.76
hsa-miR-762	5.20 ± 0.55	5.62 ± 0.65
hsa-miR-6786-5p	5.13 ± 0.75	5.56 ± 0.86
hsa-miR-320d	5.12 ± 0.88	5.79 ± 1.00
hsa-miR-7108-5p	5.03 ± 0.87	5.14 ± 0.59
hsa-miR-4687-3p	4.99 ± 0.53	4.73 ± 1.19

hsa-miR-6803-5p	4.90 ± 0.36	5.25 ± 0.59
hsa-miR-3178	4.89 ± 0.91	6.14 ± 1.89
hsa-miR-5001-5p	4.77 ± 0.79	4.92 ± 0.63
hsa-miR-1237-5p	4.69 ± 0.68	5.45 ± 1.13
hsa-miR-3656	4.66 ± 0.83	5.17 ± 0.85
hsa-miR-3196	4.59 ± 0.99	5.08 ± 1.30
hsa-miR-7110-5p	4.57 ± 1.09	5.41 ± 1.16
hsa-miR-4488	4.47 ± 1.13	4.94 ± 1.21
hsa-miR-1469	4.46 ± 0.80	4.96 ± 0.46
hsa-miR-8072	4.44 ± 1.14	4.76 ± 1.55
hsa-miR-6791-5p	4.38 ± 0.75	4.56 ± 1.04
hsa-miR-4281	4.16 ± 0.88	4.63 ± 1.03
hsa-miR-149-3p	4.13 ± 1.06	4.40 ± 0.95
hsa-miR-4443	4.12 ± 1.00	4.17 ± 1.09
hsa-miR-4508	4.07 ± 1.00	4.66 ± 1.02
hsa-miR-6126	4.05 ± 1.01	4.81 ± 1.69
hsa-miR-423-5p	4.00 ± 0.93	3.86 ± 1.43
hsa-miR-6752-5p	3.98 ± 0.94	4.37 ± 1.11
hsa-miR-455-3p	3.94 ± 0.76	2.96 ± 1.61
hsa-miR-1908-5p	3.82 ± 1.26	4.35 ± 1.36
hsa-miR-6800-5p	3.82 ± 0.84	3.60 ± 0.57
hsa-miR-6068	3.77 ± 1.01	3.20 ± 0.89
hsa-miR-22-3p	3.76 ± 1.14	2.91 ± 1.46
hsa-miR-140-3p	3.56 ± 1.71	2.27 ± 1.12
hsa-miR-4763-3p	3.55 ± 0.57	3.87 ± 0.64
hsa-miR-6850-5p	3.48 ± 0.75	3.77 ± 0.73
hsa-miR-3613-5p	3.43 ± 1.76	4.11 ± 1.19
hsa-miR-4270	3.43 ± 0.76	3.27 ± 0.57
hsa-miR-6789-5p	3.41 ± 0.83	3.31 ± 0.99
hsa-miR-4707-5p	3.33 ± 0.52	3.79 ± 0.52
hsa-miR-1228-5p	3.30 ± 0.96	3.92 ± 1.27
hsa-miR-4530	3.29 ± 0.98	1.97 ± 0.64
hsa-miR-3940-5p	3.28 ± 1.00	3.86 ± 0.90
hsa-miR-3620-5p	3.27 ± 0.79	3.55 ± 0.56
hsa-miR-4463	3.22 ± 0.86	3.11 ± 1.15
hsa-miR-4745-5p	3.22 ± 0.75	3.24 ± 0.87
hsa-miR-1281	3.22 ± 0.62	2.33 ± 0.85
hsa-miR-4467	3.11 ± 1.42	4.13 ± 1.37
hsa-miR-378a-3p	3.11 ± 0.67	3.72 ± 0.90
hsa-miR-6858-5p	3.08 ± 0.83	3.21 ± 0.89
hsa-miR-6821-5p	3.07 ± 1.10	3.58 ± 0.91
hsa-miR-193a-5p	3.07 ± 0.81	2.74 ± 1.14
hsa-miR-3921	3.06 ± 0.65	3.01 ± 0.61
hsa-miR-103a-3p	3.05 ± 2.05	1.84 ± 1.59
hsa-miR-378h	3.02 ± 0.56	3.03 ± 0.62
hsa-miR-6765-5p	3.01 ± 0.74	3.55 ± 1.00
hsa-miR-663a	3.00 ± 0.82	3.25 ± 0.89

hsa-miR-328-5p	2.97 ± 0.57	3.40 ± 1.08
hsa-miR-4429	2.95 ± 0.84	3.99 ± 0.98
hsa-miR-6756-5p	2.91 ± 0.75	3.60 ± 0.47
hsa-miR-6816-5p	2.81 ± 0.61	3.78 ± 1.29
hsa-miR-6794-5p	2.81 ± 0.55	3.52 ± 0.72
hsa-miR-1273g-3p	2.73 ± 0.91	4.16 ± 1.09
hsa-miR-6775-5p	2.63 ± 0.86	2.89 ± 0.64
hsa-miR-4433b-3p	2.63 ± 0.72	2.79 ± 1.14
hsa-miR-1227-5p	2.59 ± 1.06	3.31 ± 1.01
hsa-miR-6743-5p	2.59 ± 0.99	2.47 ± 0.78
hsa-miR-3157-3p	2.53 ± 0.91	2.12 ± 1.13
hsa-miR-6085	2.45 ± 0.56	3.40 ± 0.83
hsa-miR-4739	2.37 ± 0.51	2.30 ± 0.82
hsa-miR-619-5p	2.35 ± 0.48	3.40 ± 1.09
hsa-miR-6805-5p	2.20 ± 0.96	3.41 ± 1.14
hsa-miR-4668-5p	2.17 ± 1.19	2.05 ± 1.07
hsa-miR-4505	2.16 ± 1.09	2.21 ± 0.90
hsa-miR-6769b-5p	2.15 ± 0.59	2.65 ± 0.60
hsa-miR-6891-5p	2.12 ± 0.92	2.86 ± 0.73
hsa-miR-1207-5p	2.12 ± 0.68	2.60 ± 0.54
hsa-miR-6749-5p	2.12 ± 0.53	2.73 ± 0.59
hsa-miR-3613-3p	2.08 ± 1.31	2.37 ± 1.24
hsa-miR-937-5p	2.05 ± 0.55	1.77 ± 0.52
hsa-miR-6750-5p	2.04 ± 0.56	2.56 ± 0.90
hsa-miR-6511b-5p	1.96 ± 0.34	2.37 ± 0.64
hsa-miR-4706	1.88 ± 0.45	3.13 ± 1.10
hsa-miR-877-5p	1.85 ± 0.42	2.28 ± 0.79
hsa-miR-7150	1.77 ± 0.80	2.59 ± 0.81
hsa-miR-4507	1.76 ± 0.52	2.22 ± 0.71
hsa-miR-3141	1.74 ± 0.68	2.30 ± 0.74
hsa-miR-3185	1.71 ± 0.35	1.76 ± 0.27
hsa-miR-6787-5p	1.60 ± 0.38	1.95 ± 0.55
hsa-miR-1275	1.55 ± 0.51	2.26 ± 0.51
hsa-miR-6776-5p	1.55 ± 0.40	1.54 ± 0.71
hsa-miR-4801	0.90 ± 0.29	0.94 ± 0.14
hsa-miR-4735-3p	0.83 ± 0.17	0.99 ± 0.20