

Online Data Supplement for

Circulating miR-206 and Wnt-signaling are associated with cardiovascular complications and a history of preeclampsia in women

Running Title: Circulating miRNAs in prior preeclampsia

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Supplementary Methods

Cohort 1: ACS subjects with a history of PE or NT pregnancy

Women with acute coronary syndrome (ACS) and a history of preeclampsia (PE) or normotensive (NT) pregnancy were identified from the GENESIS-PRAXY multicentre cohort study of adults (aged ≤ 55 years) hospitalized with ACS. Detailed methods have been previously described [1]. Participants were recruited between January 2009 and April 2013 from 24 centers across Canada, one in the US and one in Switzerland. All participating sites received ethics approval from their respective ethics review boards, and participants provided written informed consent. Eligible participants were adults aged 18-55 years diagnosed with ACS, and able to provide informed consent. Pregnancy data was collected by detailed self-reported questionnaires of all female participants at study entry. Women were classified as prior PE if they reported either PE or high blood pressure in addition to proteinuria. Women who were unsure about the presence or absence of a pregnancy complication or for whom completion of these questions was incomplete were excluded. The time since last pregnancy was estimated using the age of the youngest biological child, to serve as a proxy for the interval between pregnancy and incident ACS. Venipuncture was performed on all consenting participants within 24 hours of hospital admission for ACS. Whole blood collected in citrate Vacutainers was spun at 4 °C at 3000 rpm for 10 minutes and the plasma supernatant removed and frozen at -80 °C. A total of 40 subjects were initially selected for miRNA sequencing (n=20 subjects/exposure group) after matching for cardiovascular disease risk factors including hypertension, diabetes, smoking and age. The final sample size was reduced to n=17-18 subjects/exposure group after excluding plasma specimens that failed RNA- and/or library-quality control tests prior to sequencing (further details provided under quality control assays).

Cohort 2: non-ACS subjects with a history of PE or NT pregnancy

Women without ACS and a history of either preeclampsia or normotensive pregnancy were identified from The Cardiovascular Consequences of Pre-eclampsia (COPS) study at the British Heart Foundation Glasgow Cardiovascular Research Centre (BHF GCRC). Women were recruited from multiple sources including the previous Generation Scotland: Scottish Family Health Study [2], the Proteomics in Pre-eclampsia study [3], patients who attended blood pressure clinics and friends and colleagues of participants who contacted us with interest in participating. The study was approved by the West of Scotland Research Ethics Committee 3 (Reference 12/WS/0306), and participants provided written informed consent. The index pregnancy was defined as the first pregnancy in normotensive women and the first pre-eclamptic pregnancy in those with pre-eclampsia. Women were excluded if they were >60 years old, already had established cardiovascular disease or if they were unable to give informed consent. Participants completed a questionnaire asking for obstetric history, past medical history, drug history, smoking history and family history. Blood samples were taken from the antecubital fossa using a standard tourniquet and Vacutainer system, and centrifuged at 4 °C at 2500 rpm for 15 minutes and plasma supernatant removed and frozen -80 °C. A total of 40 subjects (n=20 subjects/exposure group) matched on hypertension, diabetes, and age were selected for miRNA sequencing. All specimens passed pre-sequencing quality control tests.

Cohort 3: ACS and non-ACS subjects

The comparison of all women in cohort 1 (n=35 total ACS subjects) versus cohort 2 (n=40 total non-ACS subjects) was used to assess the impact of ACS on circulating miRNA levels.

Cohort 4: Women with PE or NT pregnancy

Information for this cohort was derived from six prior independent studies of preeclamptic women (with no ACS) reported in the systematic review by Sheikh et al. [4]. A total of 104 circulating miRNAs were identified via high-throughput screening methods as differentially altered in plasma, serum or whole blood between women with preeclampsia versus normotensive pregnancy.

RNA isolation

Total RNA including small RNAs <200 nt in size were purified from a fixed volume of 200 μ L of citrate-plasma using the miRNeasy Serum/Plasma kit (i.e., phenol/guanidine-based sample lysis and silica-column-based purification) according to manufacturer instructions (Qiagen Genomic Services; cat #217184). Cel-miR-39 was added as a spike-in control during RNA purification for downstream quality control assessment. RNA was eluted with 14 μ L of RNase-free water.

RNA Quality Control

Because the concentration of eluted total RNA purified from plasma is typically too low to assess RNA purity and integrity by standard methods involving UV absorbance ratios and Agilent Bioanalyzer, the quality of the extracted total RNA was assessed using a miScript miRNA QC PCR array (Qiagen Genomic Services; cat #MIHS-989ZE). The array contains primer assays for several types of external spike-in controls to assess variations during RNA extraction (i.e. cel-miR-39), an indicator to monitor relative efficiency and potential inhibition of the reverse transcription reaction (i.e., miRTC) and an indicator to monitor relative efficiency and potential inhibition of the downstream PCR reaction (i.e., PPC). In addition, primer assays for several endogenous miRNAs (i.e., miR-16, miR-21 and miR-191) are included as positive controls since these miRNAs are ubiquitously expressed across many different biologic specimens including body fluids, and several endogenous small nuclear/nucleolar RNAs (i.e., SNORD61, SNORD95, and SNORD96A) are included as negative controls (or markers of cellular contamination) since these are typically expressed abundantly in cells, but poorly in body fluids. During this quality assessment, specimens from 4 subjects in cohort 1 (including 1 prior PE subject and 3 prior normotensive pregnancy subjects) showed evidence of poor RNA quality (Figure S1), and therefore were not sequenced after the corresponding sequencing libraries showed poor yields (noted below; Figure S2). One additional sample from cohort 1 (a subject with prior PE) was excluded prior to sequencing because the qPCR assay showed evidence of cellular contamination (Figure S1). Overall, the results of the quality control assays suggested that the quality and quantity of extracted RNA was generally comparable between samples, with the above noted exceptions.

Library Construction, Quality Control and Sequencing

A fixed volume of 5 μ L of the extracted total RNA was used for NGS library construction using the QIAseq miRNA library kit according to manufacturer instructions (Qiagen Genomic Services; cat #331505). In brief, specifically designed 3' and 5' adapters were sequentially ligated to mature miRNAs. The ligated miRNAs were then reverse-transcribed to generate cDNA using a reverse-transcription (RT) primer with a unique molecular index (UMI) tag. Of note, the kit is designed to minimize adapter dimers and hy4 Y RNA contamination during cDNA cleanup. The

cDNA library was then amplified via PCR (21 cycles) and subsequently purified prior to quality control assessment. Library qualification was conducted with High Sensitivity DNA chips on an Agilent Bioanalyzer 2100 instrument (or Agilent TapeStation 4200) to confirm proper library size and yield (Figure S2). In addition, library concentrations were quantified on a Qubit device using the Quant-iT dsDNA High Sensitivity Assay Kit. Libraries were pooled in equimolar ratios and quantified using qPCR. Library pools were then sequenced on an Illumina NextSeq 500 sequencer using NextSeq 500 Mid Output Reagent Cartridge v2 (75 cycles). Raw data was de-multiplexed and FASTQ data files for each sample were generated using the bcl2fastq software (Illumina Inc.), and checked for quality using the FastQC tool.

Sequence Trimming, UMI consolidation and read mapping

Trimming of library and sequencing adaptors was performed after sequencing with Cutadapt (1.11), and reads were analyzed for the presence of the unique molecular index (UMI) tags that were added during library construction. On average, 22.2 million raw reads were obtained per sample, and 10.2 million reads per sample remained after excluding reads that were missing adaptors, too short (insert sequence <16 nt) or did not contain the minimal length UMI tag (i.e., 10 nt). All reads containing identical insert sequence and UMI sequence (insert-UMI pair) were collapsed into a single read (to correct for potential library amplification bias and improve miRNA quantification) and passed into the analysis pipeline. On average, 2.3 million UMI-corrected reads were obtained per sample. Bowtie2 (2.2.2) was used for mapping reads based on the criterion of having a perfect sequence match to the reference sequence. Reads were aligned to miRBase 20 and/or human GRCh37 reference genome. Conversion of raw reads to UMI-corrected mapped counts was conducted by Qiagen Genomic Services.

miRNA-gene target integration and Pathway Enrichment Analysis

miRNA-gene target integration and pathway enrichment analysis were performed in Partek Genomics Suite using default settings in the miRNA integration and biological interpretation pathway analysis features. Differentially-altered miRNA candidates were combined with predicted gene targets using TargetsCan 7.2 [5] (conserved miRNA sites database; 1,468,778 records) or experimentally-validated gene targets using miRTarBase 7.0 (422 517 curated miRNA-target interactions) [6], and pathway enrichment determined with a Fisher's exact test.

Pre and post study sample size and power estimations

Study sample sizes of $n=20$ /group were estimated *a priori* to achieve 80% power to detect a >2-fold change in miRNA level with a bonferonni-adjusted alpha value of 0.0001 assuming 500 detectable miRNAs for differential analysis and a coefficient of variation (CV) of 0.47. This variation in miRNA levels was estimated using the median CV from 235 miRs previously measured by (RT)-qPCR array in a similar set of human plasma samples [7], and extrapolated into a common standard deviation assuming mean miR levels between 10-20 counts. These initial sample size calculations were performed with the online calculator at <https://www.stat.ubc.ca/~rollin/stats/ssize/n2.html>. Post hoc estimations of the dispersion in miRNA count levels from the completed sequencing experiment, and sample size-power relationships were calculated using the RNASeqSampleSize software package in R language and online interface at <http://cqs.mc.vanderbilt.edu/shiny/RnaSeqSampleSize/>. [8]

Statistical Analysis

All statistical tests comparing cohort characteristics were performed in Graphpad Prism 8.0. Data normality was assessed using the D'Agostino Pearson test. Differences between exposure groups for continuous data was assessed using a Mann-Whitney or unpaired t-test, depending on data normality as appropriate. Differences in categorical variables were assessed via Fisher's exact test. Data are presented as mean \pm standard deviation (SD) unless otherwise specified.

Differential expression analysis was conducted on the subset of samples related to the specific groups being compared, using UMI-corrected miRNA counts as input into the EdgeR statistical software package (Bioconductor, <http://www.bioconductor.org/>). Data was preprocessed to exclude poorly detectable miRNAs such that the sum of the counts per million mapped reads (CPM) for each miRNA in all samples pertaining to the comparison subset were > 10 . The filtered data was normalized using the trimmed mean of M-values (TMM) normalization method in EdgeR to compensate for sample specific effects related to variations in sequencing depth and RNA composition. MiRNA levels in some figures are presented simply as counts per million mapped reads (CPM), which only corrects for differences in sequencing depth between samples. P-values and Benjamini-Hochberg false discovery rate (FDR)-correct p values for differentially altered miRNAs were calculated with an exact test assuming a negative binomial distribution in EdgeR. Principal component analysis and unsupervised hierarchical clustering and heatmap construction was performed with default parameters in Partek Genomics Suite 7.2 using log₂ transformed TMM-normalized miRNA counts (with offset 1 to account for 0 values).

Table S1. Differential expression analysis of 427 miRNAs detected in plasma from women with acute coronary syndrome (cohort 1) and a history of preeclampsia (PE, n=18) versus normotensive (NT, n=17) pregnancy. MiRNA levels are expressed as mean counts per million mapped reads (CPM). MiRNAs are listed in descending order of statistical significance.

miRNA	Fold Change (PE/NT)	p value	FDR-adjusted p value	miR level (CPM)
miR-206	-10.6	1.64E-06	6.98E-04	242
miR-1292-5p	-3.6	8.28E-05	1.77E-02	8
miR-184	10.3	2.35E-04	3.35E-02	52
miR-376a-3p	-4.7	1.10E-03	1.17E-01	7
miR-499a-5p	5.8	1.85E-03	1.58E-01	45
miR-218-5p	5.4	2.24E-03	1.60E-01	7
miR-6730-3p	7.3	3.46E-03	1.96E-01	4
miR-1299	4.9	3.67E-03	1.96E-01	23
miR-1	3.0	5.46E-03	2.59E-01	531
miR-889-3p	-2.9	7.52E-03	3.21E-01	17
miR-30b-5p	-1.8	1.23E-02	4.45E-01	15
miR-4662a-5p	3.5	1.33E-02	4.45E-01	5
miR-136-3p	-2.7	1.35E-02	4.45E-01	10
miR-431-5p	-2.4	1.47E-02	4.49E-01	73
miR-874-5p	3.3	1.64E-02	4.54E-01	4
miR-28-5p	-2.7	1.70E-02	4.54E-01	5
miR-6767-5p	2.7	1.95E-02	4.91E-01	7
miR-505-3p	-1.9	2.22E-02	5.01E-01	9
miR-493-5p	-2.3	2.29E-02	5.01E-01	13
miR-1277-5p	-1.8	2.35E-02	5.01E-01	13
miR-369-5p	-2.2	2.54E-02	5.07E-01	18
miR-6741-3p	1.7	2.61E-02	5.07E-01	11
miR-133a-3p	2.7	2.78E-02	5.16E-01	76
miR-221-5p	-1.9	3.03E-02	5.39E-01	9
miR-2355-3p	-1.9	3.54E-02	5.91E-01	7
miR-4667-5p	3.6	3.60E-02	5.91E-01	4
miR-3591-5p	3.8	4.01E-02	6.34E-01	5
miR-769-5p	-1.5	4.20E-02	6.40E-01	27
miR-329-3p	-2.5	4.56E-02	6.54E-01	7
miR-202-3p	2.9	4.68E-02	6.54E-01	6
miR-130b-3p	1.5	5.16E-02	6.54E-01	47
miR-27a-5p	2.0	5.32E-02	6.54E-01	5
miR-335-3p	-1.9	5.48E-02	6.54E-01	15

miR-195-5p	1.5	5.51E-02	6.54E-01	99
miR-378c	1.6	5.79E-02	6.54E-01	15
miR-5189-3p	2.3	5.89E-02	6.54E-01	6
miR-378a-3p	1.4	6.01E-02	6.54E-01	465
miR-150-3p	1.6	6.19E-02	6.54E-01	21
miR-493-3p	-2.1	6.62E-02	6.54E-01	9
miR-128-3p	-1.3	6.67E-02	6.54E-01	324
miR-29c-3p	1.3	6.82E-02	6.54E-01	1241
miR-339-5p	-1.4	6.95E-02	6.54E-01	117
miR-10b-3p	2.0	7.25E-02	6.54E-01	9
miR-432-5p	-1.8	7.28E-02	6.54E-01	434
miR-628-3p	-1.4	7.42E-02	6.54E-01	61
miR-223-3p	-1.5	7.50E-02	6.54E-01	5871
miR-369-3p	-1.8	7.55E-02	6.54E-01	19
miR-6859-5p	2.0	7.63E-02	6.54E-01	5
miR-423-3p	-1.4	7.72E-02	6.54E-01	553
miR-4775	-2.4	7.99E-02	6.54E-01	4
miR-381-3p	-2.0	8.08E-02	6.54E-01	34
miR-548a-3p	-2.0	8.14E-02	6.54E-01	6
miR-335-5p	1.5	8.34E-02	6.54E-01	397
miR-3127-5p	1.9	8.73E-02	6.54E-01	8
miR-382-5p	-1.8	9.17E-02	6.54E-01	262
miR-5187-5p	-1.8	9.32E-02	6.54E-01	8
miR-3688-3p	-1.5	9.64E-02	6.54E-01	14
miR-181c-3p	-2.0	9.78E-02	6.54E-01	7
miR-4714-3p	2.4	9.79E-02	6.54E-01	5
miR-9-5p	-2.4	9.89E-02	6.54E-01	12
miR-26b-3p	1.7	9.90E-02	6.54E-01	9
miR-4433b-5p	-1.7	1.00E-01	6.54E-01	955
miR-205-5p	-1.5	1.03E-01	6.54E-01	90
miR-1250-5p	2.6	1.03E-01	6.54E-01	4
miR-491-5p	-1.7	1.05E-01	6.54E-01	12
miR-18a-3p	-1.4	1.07E-01	6.54E-01	39
miR-143-5p	1.7	1.09E-01	6.54E-01	16
miR-664b-5p	1.5	1.09E-01	6.54E-01	12
miR-654-3p	-1.8	1.11E-01	6.54E-01	42
miR-208b-3p	2.5	1.12E-01	6.54E-01	88
miR-30d-5p	-1.2	1.12E-01	6.54E-01	12944
miR-376c-3p	-2.2	1.14E-01	6.54E-01	7
miR-4669	-2.3	1.15E-01	6.54E-01	9
miR-1304-3p	-1.5	1.15E-01	6.54E-01	14

miR-652-3p	-1.4	1.16E-01	6.54E-01	36
miR-125b-1-3p	2.1	1.17E-01	6.54E-01	8
miR-574-3p	1.5	1.19E-01	6.54E-01	74
miR-3679-5p	1.9	1.20E-01	6.54E-01	8
miR-3613-3p	-1.8	1.21E-01	6.54E-01	6
miR-323a-3p	-1.7	1.26E-01	6.56E-01	21
miR-379-5p	-1.7	1.26E-01	6.56E-01	53
miR-885-5p	-1.8	1.28E-01	6.56E-01	18
miR-361-3p	-1.3	1.28E-01	6.56E-01	351
miR-145-3p	2.2	1.31E-01	6.56E-01	6
miR-127-3p	-1.9	1.34E-01	6.56E-01	10
miR-4738-3p	1.9	1.36E-01	6.56E-01	6
miR-6721-5p	-1.7	1.36E-01	6.56E-01	7
miR-3168	1.6	1.38E-01	6.56E-01	36
miR-1237-3p	-1.7	1.38E-01	6.56E-01	7
miR-296-5p	1.4	1.38E-01	6.56E-01	22
miR-452-5p	1.8	1.44E-01	6.69E-01	12
miR-338-3p	-1.5	1.45E-01	6.69E-01	17
miR-576-5p	-1.3	1.46E-01	6.69E-01	171
miR-1301-3p	-1.5	1.47E-01	6.69E-01	26
miR-339-3p	-1.3	1.57E-01	6.97E-01	38
miR-1307-3p	-1.3	1.62E-01	6.97E-01	734
miR-17-5p	-1.3	1.64E-01	6.97E-01	117
let-7d-5p	1.2	1.64E-01	6.97E-01	1828
miR-425-5p	-1.2	1.64E-01	6.97E-01	4293
miR-23a-5p	1.9	1.65E-01	6.97E-01	4
miR-27a-3p	1.2	1.66E-01	6.97E-01	201
miR-1273h-3p	-1.6	1.67E-01	6.97E-01	10
miR-196a-5p	-1.7	1.75E-01	7.14E-01	16
miR-151a-3p	-1.3	1.76E-01	7.14E-01	2003
miR-548n	-1.7	1.76E-01	7.14E-01	6
miR-106b-5p	-1.4	1.77E-01	7.14E-01	25
miR-4732-3p	-1.3	1.84E-01	7.21E-01	208
miR-29b-3p	1.2	1.85E-01	7.21E-01	152
miR-126-3p	-1.2	1.88E-01	7.21E-01	9787
miR-93-3p	-1.3	1.88E-01	7.21E-01	32
miR-30a-3p	1.3	1.92E-01	7.21E-01	58
miR-323b-3p	-1.6	1.93E-01	7.21E-01	31
miR-382-3p	-1.7	1.94E-01	7.21E-01	13
miR-1255b-5p	-1.3	1.94E-01	7.21E-01	45
miR-95-3p	1.5	1.96E-01	7.21E-01	18

miR-425-3p	-1.2	1.97E-01	7.21E-01	75
miR-409-3p	-1.6	1.98E-01	7.21E-01	346
miR-208a-3p	2.1	1.99E-01	7.21E-01	5
miR-22-5p	-1.5	2.01E-01	7.23E-01	10
miR-199a-5p	-1.5	2.07E-01	7.31E-01	17
miR-30a-5p	1.3	2.07E-01	7.31E-01	1276
miR-485-5p	-1.5	2.13E-01	7.41E-01	41
miR-144-5p	-1.3	2.13E-01	7.41E-01	197
miR-30d-3p	1.7	2.16E-01	7.41E-01	6
miR-215-5p	1.6	2.19E-01	7.41E-01	82
miR-411-5p	-1.6	2.20E-01	7.41E-01	13
miR-222-3p	1.2	2.20E-01	7.41E-01	113
miR-129-5p	-1.5	2.26E-01	7.52E-01	7
miR-132-3p	1.3	2.27E-01	7.52E-01	46
miR-671-5p	-1.3	2.32E-01	7.59E-01	57
miR-10b-5p	1.3	2.33E-01	7.59E-01	1401
miR-29a-3p	1.2	2.36E-01	7.59E-01	1092
miR-1226-3p	-1.3	2.38E-01	7.59E-01	10
miR-548l	-1.3	2.40E-01	7.59E-01	9
miR-485-3p	-1.6	2.41E-01	7.59E-01	70
miR-7976	-1.4	2.42E-01	7.59E-01	9
miR-4710	2.1	2.47E-01	7.69E-01	4
miR-15a-5p	1.2	2.58E-01	7.98E-01	599
miR-21-3p	-1.3	2.61E-01	8.03E-01	10
miR-23b-3p	1.2	2.64E-01	8.06E-01	154
miR-148a-3p	-1.2	2.67E-01	8.08E-01	3832
miR-200b-3p	-1.6	2.71E-01	8.15E-01	34
miR-340-5p	-1.2	2.82E-01	8.40E-01	173
miR-625-5p	-1.4	2.84E-01	8.40E-01	8
miR-625-3p	-1.3	2.85E-01	8.40E-01	321
miR-584-5p	-1.2	2.94E-01	8.54E-01	723
miR-494-3p	1.5	2.95E-01	8.54E-01	12
miR-23b-5p	1.5	2.97E-01	8.54E-01	9
miR-377-3p	-1.4	3.02E-01	8.54E-01	6
miR-1468-5p	-1.3	3.07E-01	8.54E-01	9
miR-15b-5p	1.2	3.08E-01	8.54E-01	672
miR-3942-5p	-1.5	3.09E-01	8.54E-01	4
miR-421	1.2	3.09E-01	8.54E-01	47
miR-191-3p	-1.3	3.09E-01	8.54E-01	13
miR-107	1.2	3.12E-01	8.54E-01	414
miR-3187-3p	1.3	3.12E-01	8.54E-01	25

miR-628-5p	-1.5	3.15E-01	8.57E-01	13
miR-33a-5p	1.3	3.19E-01	8.61E-01	9
miR-548d-5p	1.3	3.25E-01	8.68E-01	16
miR-5583-3p	-1.7	3.25E-01	8.68E-01	5
miR-106b-3p	-1.2	3.32E-01	8.77E-01	575
miR-548j-5p	-1.3	3.33E-01	8.77E-01	31
miR-4433b-3p	1.7	3.40E-01	8.90E-01	16
miR-24-3p	-1.1	3.42E-01	8.90E-01	583
let-7e-5p	1.1	3.44E-01	8.91E-01	214
miR-214-3p	1.6	3.49E-01	8.93E-01	7
miR-151a-5p	-1.2	3.52E-01	8.93E-01	20
miR-636	-1.2	3.56E-01	8.93E-01	16
miR-181a-5p	-1.2	3.56E-01	8.93E-01	1338
miR-3605-5p	1.3	3.63E-01	8.93E-01	8
miR-3065-5p	1.4	3.63E-01	8.93E-01	9
miR-1908-5p	-1.2	3.66E-01	8.93E-01	49
miR-197-3p	-1.2	3.67E-01	8.93E-01	243
miR-374a-5p	-1.2	3.67E-01	8.93E-01	86
miR-671-3p	-1.3	3.68E-01	8.93E-01	16
miR-1976	-1.2	3.69E-01	8.93E-01	42
miR-3615	-1.2	3.70E-01	8.93E-01	744
miR-542-3p	-1.2	3.73E-01	8.94E-01	20
miR-337-5p	-1.4	3.78E-01	9.01E-01	5
miR-409-5p	-1.6	3.80E-01	9.01E-01	5
miR-199a-3p	-1.2	3.88E-01	9.13E-01	1591
miR-190a-5p	1.2	3.94E-01	9.13E-01	95
miR-34a-5p	1.3	3.96E-01	9.13E-01	56
miR-134-5p	-1.3	3.97E-01	9.13E-01	152
miR-3158-3p	-1.3	3.98E-01	9.13E-01	15
miR-664a-3p	-1.3	3.99E-01	9.13E-01	9
miR-146b-5p	-1.2	4.04E-01	9.13E-01	335
miR-509-3p	1.6	4.05E-01	9.13E-01	5
miR-6514-5p	-1.4	4.07E-01	9.13E-01	6
miR-370-3p	-1.4	4.08E-01	9.13E-01	32
miR-5010-5p	-1.2	4.10E-01	9.13E-01	8
miR-19a-3p	1.1	4.12E-01	9.13E-01	140
miR-181d-5p	-1.3	4.13E-01	9.13E-01	14
miR-454-3p	1.2	4.17E-01	9.16E-01	90
miR-342-3p	-1.1	4.19E-01	9.16E-01	3341
miR-140-3p	1.2	4.21E-01	9.16E-01	963
miR-6515-3p	-1.3	4.23E-01	9.16E-01	5

miR-487b-3p	-1.4	4.26E-01	9.16E-01	8
miR-589-5p	-1.2	4.27E-01	9.16E-01	21
miR-92a-3p	-1.1	4.30E-01	9.19E-01	127379
miR-328-3p	-1.2	4.34E-01	9.21E-01	648
miR-199b-3p	-1.2	4.39E-01	9.26E-01	1256
miR-100-5p	-1.2	4.40E-01	9.26E-01	201
miR-484	-1.2	4.48E-01	9.37E-01	2247
miR-143-3p	1.2	4.50E-01	9.38E-01	1510
miR-125b-2-3p	1.3	4.54E-01	9.38E-01	18
miR-3940-3p	-1.3	4.58E-01	9.38E-01	7
miR-6852-5p	-1.3	4.58E-01	9.38E-01	22
miR-345-5p	-1.2	4.66E-01	9.38E-01	28
miR-25-5p	1.2	4.66E-01	9.38E-01	40
miR-125a-3p	1.5	4.67E-01	9.38E-01	6
miR-6793-5p	-1.2	4.67E-01	9.38E-01	5
miR-497-5p	1.4	4.68E-01	9.38E-01	8
miR-1224-5p	1.2	4.73E-01	9.40E-01	10
miR-3177-3p	-1.3	4.74E-01	9.40E-01	8
miR-4435	1.5	4.75E-01	9.40E-01	5
miR-326	-1.3	4.78E-01	9.40E-01	24
miR-22-3p	1.1	4.91E-01	9.49E-01	685
miR-3613-5p	1.1	4.92E-01	9.49E-01	381
miR-744-5p	-1.2	4.97E-01	9.49E-01	254
miR-99b-5p	-1.1	4.98E-01	9.49E-01	297
miR-223-5p	-1.1	5.01E-01	9.49E-01	349
miR-122-3p	-1.3	5.03E-01	9.49E-01	6
miR-4732-5p	1.1	5.05E-01	9.49E-01	260
miR-1247-5p	1.3	5.05E-01	9.49E-01	10
miR-532-5p	-1.1	5.09E-01	9.49E-01	289
miR-122-5p	-1.2	5.24E-01	9.49E-01	50853
miR-9-3p	1.4	5.27E-01	9.49E-01	5
miR-5001-3p	-1.2	5.30E-01	9.49E-01	9
miR-181c-5p	-1.2	5.32E-01	9.49E-01	9
miR-18b-3p	-1.2	5.33E-01	9.49E-01	6
miR-769-3p	1.2	5.33E-01	9.49E-01	7
miR-660-5p	-1.1	5.34E-01	9.49E-01	470
miR-181b-5p	-1.1	5.39E-01	9.49E-01	197
miR-203a	-1.3	5.41E-01	9.49E-01	272
miR-148b-5p	-1.2	5.45E-01	9.49E-01	13
miR-30e-3p	-1.1	5.46E-01	9.49E-01	112
miR-155-5p	1.1	5.47E-01	9.49E-01	367

miR-210-3p	1.2	5.47E-01	9.49E-01	22
miR-424-5p	-1.2	5.51E-01	9.49E-01	13
miR-502-3p	1.1	5.54E-01	9.49E-01	46
miR-192-5p	-1.1	5.61E-01	9.49E-01	972
miR-324-3p	-1.1	5.61E-01	9.49E-01	32
miR-103a-3p	-1.1	5.64E-01	9.49E-01	3992
miR-6786-3p	-1.2	5.64E-01	9.49E-01	7
miR-651-5p	1.3	5.65E-01	9.49E-01	15
let-7f-5p	1.1	5.65E-01	9.49E-01	15727
miR-181a-3p	1.1	5.65E-01	9.49E-01	26
miR-31-5p	1.4	5.69E-01	9.49E-01	10
miR-96-5p	1.1	5.70E-01	9.49E-01	144
miR-598-3p	-1.1	5.72E-01	9.49E-01	37
miR-320d	-1.1	5.75E-01	9.49E-01	68
miR-3120-3p	-1.2	5.77E-01	9.49E-01	4
miR-18a-5p	-1.1	5.86E-01	9.49E-01	26
miR-378i	1.2	5.88E-01	9.49E-01	10
miR-3138	1.3	5.90E-01	9.49E-01	8
miR-1260b	-1.2	5.91E-01	9.49E-01	10
miR-26b-5p	-1.1	5.94E-01	9.49E-01	3842
miR-627-5p	-1.2	5.95E-01	9.49E-01	8
miR-181a-2-3p	1.1	5.96E-01	9.49E-01	40
miR-200c-3p	-1.2	5.96E-01	9.49E-01	91
miR-4742-3p	-1.1	5.99E-01	9.49E-01	12
miR-483-5p	1.2	6.01E-01	9.49E-01	550
miR-10a-5p	1.1	6.01E-01	9.49E-01	978
miR-1246	-1.1	6.03E-01	9.49E-01	35
miR-193b-5p	1.2	6.03E-01	9.49E-01	78
miR-186-5p	-1.1	6.08E-01	9.49E-01	277
miR-4428	2.3	6.08E-01	9.49E-01	3
miR-125a-5p	1.1	6.08E-01	9.49E-01	2160
miR-6807-5p	1.3	6.11E-01	9.49E-01	4
miR-505-5p	-1.2	6.13E-01	9.49E-01	14
miR-126-5p	1.1	6.14E-01	9.49E-01	3411
miR-199b-5p	-1.2	6.14E-01	9.49E-01	8
miR-320a	1.1	6.15E-01	9.49E-01	2154
miR-1260a	-1.2	6.18E-01	9.49E-01	8
miR-374b-5p	-1.1	6.20E-01	9.49E-01	23
miR-140-5p	-1.1	6.22E-01	9.49E-01	46
miR-4533	-2.0	6.23E-01	9.49E-01	4
miR-7706	1.2	6.25E-01	9.49E-01	16

miR-664a-5p	1.1	6.27E-01	9.49E-01	128
miR-629-5p	-1.1	6.29E-01	9.49E-01	219
miR-3605-3p	-1.1	6.30E-01	9.49E-01	40
let-7a-3p	1.2	6.30E-01	9.49E-01	9
miR-1306-5p	-1.1	6.31E-01	9.49E-01	260
miR-365a-3p	-1.2	6.39E-01	9.49E-01	14
miR-99b-3p	-1.2	6.39E-01	9.49E-01	9
miR-26a-5p	-1.1	6.39E-01	9.49E-01	4679
miR-676-3p	1.5	6.42E-01	9.49E-01	5
miR-193a-5p	1.1	6.46E-01	9.49E-01	305
miR-1270	1.1	6.47E-01	9.49E-01	18
let-7c-5p	1.1	6.52E-01	9.49E-01	765
miR-363-3p	-1.1	6.56E-01	9.49E-01	510
miR-196b-5p	-1.1	6.56E-01	9.49E-01	224
miR-194-5p	-1.1	6.61E-01	9.49E-01	461
miR-7-5p	1.1	6.61E-01	9.49E-01	659
miR-146b-3p	-1.1	6.62E-01	9.49E-01	14
miR-500a-3p	1.1	6.62E-01	9.49E-01	39
miR-941	-1.1	6.62E-01	9.49E-01	139
miR-27b-3p	1.1	6.67E-01	9.51E-01	771
miR-32-5p	1.1	6.68E-01	9.51E-01	535
let-7a-5p	1.1	6.72E-01	9.52E-01	27324
miR-127-5p	-1.5	6.73E-01	9.52E-01	5
miR-125b-5p	-1.1	6.82E-01	9.55E-01	1302
miR-1294	1.1	6.83E-01	9.55E-01	70
miR-766-3p	1.2	6.84E-01	9.55E-01	7
miR-99a-5p	-1.1	6.89E-01	9.55E-01	334
miR-6780a-5p	1.1	6.96E-01	9.55E-01	6
miR-548at-5p	-1.1	6.98E-01	9.55E-01	7
miR-885-3p	1.2	7.02E-01	9.55E-01	61
miR-6862-5p	1.4	7.03E-01	9.55E-01	5
miR-454-5p	1.1	7.04E-01	9.55E-01	21
miR-1343-3p	-1.1	7.05E-01	9.55E-01	8
miR-15b-3p	-1.1	7.06E-01	9.55E-01	38
miR-30c-5p	1.1	7.07E-01	9.55E-01	62
miR-365b-3p	-1.1	7.08E-01	9.55E-01	12
miR-101-3p	1.1	7.08E-01	9.55E-01	4921
miR-28-3p	-1.1	7.10E-01	9.55E-01	359
miR-139-5p	-1.1	7.17E-01	9.55E-01	13
miR-130b-5p	1.1	7.18E-01	9.55E-01	11
miR-224-5p	-1.1	7.20E-01	9.55E-01	23

miR-301a-3p	-1.1	7.22E-01	9.55E-01	17
miR-3200-3p	1.2	7.25E-01	9.55E-01	9
miR-21-5p	1.0	7.27E-01	9.55E-01	23355
miR-486-3p	-1.1	7.31E-01	9.55E-01	87
miR-19b-3p	1.1	7.32E-01	9.55E-01	570
miR-132-5p	1.2	7.34E-01	9.55E-01	7
miR-148b-3p	-1.0	7.35E-01	9.55E-01	785
miR-6803-3p	-1.1	7.35E-01	9.55E-01	15
miR-145-5p	-1.1	7.36E-01	9.55E-01	22
miR-6511a-3p	1.1	7.39E-01	9.56E-01	8
miR-4685-3p	-1.1	7.41E-01	9.56E-01	8
miR-874-3p	1.1	7.44E-01	9.57E-01	32
miR-106a-5p	1.1	7.57E-01	9.70E-01	10
miR-211-5p	1.2	7.61E-01	9.73E-01	7
miR-30e-5p	-1.0	7.75E-01	9.80E-01	4562
miR-141-3p	1.1	7.80E-01	9.80E-01	53
miR-501-3p	1.0	7.83E-01	9.80E-01	204
miR-4429	-1.1	7.85E-01	9.80E-01	7
miR-760	-1.1	7.87E-01	9.80E-01	30
miR-320c	-1.1	7.89E-01	9.80E-01	129
miR-25-3p	-1.0	7.89E-01	9.80E-01	14922
miR-330-3p	-1.1	7.91E-01	9.80E-01	7
miR-191-5p	-1.0	7.91E-01	9.80E-01	3448
miR-3173-5p	1.1	7.95E-01	9.80E-01	22
miR-185-5p	1.0	7.96E-01	9.80E-01	3116
miR-6747-3p	-1.1	7.96E-01	9.80E-01	6
miR-3934-5p	-1.2	7.97E-01	9.80E-01	4
miR-92b-3p	-1.0	8.05E-01	9.84E-01	493
miR-2110	1.1	8.05E-01	9.84E-01	56
miR-16-2-3p	1.0	8.09E-01	9.84E-01	34
miR-1307-5p	1.1	8.09E-01	9.84E-01	21
miR-3198	-1.0	8.15E-01	9.87E-01	5
miR-17-3p	-1.1	8.16E-01	9.87E-01	11
miR-10a-3p	1.2	8.18E-01	9.87E-01	9
miR-130a-3p	1.1	8.21E-01	9.87E-01	74
miR-6764-5p	1.2	8.25E-01	9.89E-01	6
miR-483-3p	-1.1	8.27E-01	9.89E-01	260
miR-503-5p	1.0	8.30E-01	9.90E-01	38
miR-423-5p	-1.0	8.32E-01	9.90E-01	7674
miR-324-5p	-1.0	8.40E-01	9.93E-01	86
miR-1249	-1.0	8.48E-01	9.93E-01	12

miR-152-3p	-1.0	8.54E-01	9.93E-01	156
miR-16-5p	1.0	8.59E-01	9.93E-01	334345
miR-142-5p	1.0	8.61E-01	9.93E-01	2532
miR-532-3p	-1.0	8.61E-01	9.93E-01	56
miR-2116-3p	1.1	8.61E-01	9.93E-01	7
miR-183-5p	-1.0	8.66E-01	9.93E-01	532
miR-486-5p	-1.0	8.70E-01	9.93E-01	217490
miR-1229-3p	-1.0	8.70E-01	9.93E-01	7
miR-320b	1.0	8.71E-01	9.93E-01	151
miR-23a-3p	1.0	8.71E-01	9.93E-01	812
miR-451a	-1.0	8.71E-01	9.93E-01	18628
miR-331-3p	1.0	8.73E-01	9.93E-01	9
miR-361-5p	-1.0	8.75E-01	9.93E-01	257
miR-429	-1.0	8.79E-01	9.93E-01	7
miR-342-5p	-1.1	8.79E-01	9.93E-01	5
miR-185-3p	-1.0	8.81E-01	9.93E-01	66
miR-190b	-1.0	8.81E-01	9.93E-01	32
miR-200a-3p	1.1	8.81E-01	9.93E-01	34
miR-148a-5p	-1.0	8.91E-01	9.96E-01	8
miR-146a-5p	-1.0	8.91E-01	9.96E-01	4532
let-7d-3p	-1.0	8.92E-01	9.96E-01	287
miR-144-3p	-1.0	8.97E-01	9.96E-01	209
miR-942-5p	-1.0	9.02E-01	9.96E-01	71
miR-6511b-3p	1.1	9.03E-01	9.96E-01	9
miR-221-3p	-1.0	9.03E-01	9.96E-01	1293
miR-20a-5p	-1.0	9.06E-01	9.96E-01	416
miR-937-3p	-1.1	9.07E-01	9.96E-01	5
miR-450b-5p	1.0	9.11E-01	9.96E-01	11
miR-374a-3p	-1.0	9.12E-01	9.96E-01	11
miR-1180-3p	1.0	9.12E-01	9.96E-01	164
miR-182-5p	-1.0	9.15E-01	9.97E-01	959
let-7b-5p	1.0	9.17E-01	9.97E-01	33604
miR-548ay-5p	1.0	9.23E-01	1.00E+00	15
miR-6805-5p	1.0	9.26E-01	1.00E+00	7
let-7i-5p	1.0	9.31E-01	1.00E+00	17929
miR-7151-3p	1.1	9.33E-01	1.00E+00	5
miR-7-1-3p	-1.0	9.41E-01	1.00E+00	7
miR-150-5p	-1.0	9.41E-01	1.00E+00	2592
miR-20b-5p	-1.0	9.49E-01	1.00E+00	223
miR-378a-5p	1.0	9.53E-01	1.00E+00	14
let-7g-5p	-1.0	9.53E-01	1.00E+00	1408

miR-3682-3p	1.0	9.57E-01	1.00E+00	6
miR-365a-5p	1.1	9.58E-01	1.00E+00	6
miR-29c-5p	1.0	9.60E-01	1.00E+00	12
miR-375	1.0	9.61E-01	1.00E+00	465
miR-330-5p	1.1	9.66E-01	1.00E+00	4
miR-98-5p	1.0	9.68E-01	1.00E+00	137
miR-142-3p	-1.0	9.72E-01	1.00E+00	1713
miR-4446-3p	1.0	9.72E-01	1.00E+00	13
miR-92b-5p	-1.0	9.82E-01	1.00E+00	33
miR-204-5p	-1.0	9.88E-01	1.00E+00	12
miR-590-3p	-1.0	9.88E-01	1.00E+00	14
miR-93-5p	1.0	9.89E-01	1.00E+00	7457
miR-139-3p	-1.0	9.89E-01	1.00E+00	173
miR-3913-5p	-1.1	9.97E-01	1.00E+00	12
miR-6796-5p	1.2	1.00E+00	1.00E+00	4
miR-3150a-5p	1.2	1.00E+00	1.00E+00	4
miR-877-3p	1.1	1.00E+00	1.00E+00	6
miR-550a-3p	1.0	1.00E+00	1.00E+00	13
miR-3928-3p	-1.0	1.00E+00	1.00E+00	7
let-7b-3p	1.0	1.00E+00	1.00E+00	19
miR-1296-5p	-1.0	1.00E+00	1.00E+00	6
miR-6734-5p	1.0	1.00E+00	1.00E+00	7
miR-6842-3p	1.0	1.00E+00	1.00E+00	7
miR-26a-1-3p	-1.0	1.00E+00	1.00E+00	6
miR-1287-5p	-1.0	1.00E+00	1.00E+00	17

Table S2. Differential expression analysis of 392 miRNAs detected in plasma from women without ACS (cohort 2) and a history of preeclampsia (PE, n=20) versus normotensive (NT, n=20) pregnancy. MiRNA levels are expressed as mean counts per million mapped reads (CPM). MiRNAs are listed in descending order of statistical significance.

miRNA	Fold Change (PE/NT)	p value	FDR-adjusted p value	miR level (CPM)
miR-122-5p	-2.6	4.65E-04	1.82E-01	15405
miR-29a-3p	-1.4	1.98E-03	2.37E-01	449
miR-99a-5p	-1.5	2.17E-03	2.37E-01	126
miR-203a	-2.4	2.67E-03	2.37E-01	251
miR-125b-5p	-1.5	3.07E-03	2.37E-01	603
miR-1299	4.0	3.63E-03	2.37E-01	10
miR-205-5p	-1.6	4.95E-03	2.77E-01	56
miR-4662a-5p	-2.0	9.21E-03	4.51E-01	4
miR-193b-5p	-2.0	1.11E-02	4.84E-01	17
miR-9-5p	-2.9	1.40E-02	5.32E-01	8
miR-382-3p	-1.7	1.49E-02	5.32E-01	15
miR-885-3p	-2.3	1.74E-02	5.70E-01	15
miR-206	-1.8	2.06E-02	6.21E-01	34
miR-877-3p	1.6	2.32E-02	6.50E-01	8
miR-204-5p	-1.7	2.68E-02	7.02E-01	8
miR-885-5p	-2.0	2.95E-02	7.23E-01	8
miR-22-3p	1.3	3.47E-02	7.63E-01	506
miR-376a-3p	-1.6	3.50E-02	7.63E-01	8
miR-1224-5p	2.1	3.78E-02	7.79E-01	10
miR-30a-5p	-1.2	4.93E-02	9.18E-01	491
miR-5189-3p	-1.7	5.07E-02	9.18E-01	5
miR-598-3p	-1.3	5.15E-02	9.18E-01	34
miR-483-5p	-1.5	6.03E-02	1.00E+00	118
miR-329-3p	-1.7	6.26E-02	1.00E+00	9
miR-543	-1.5	7.29E-02	1.00E+00	7
miR-27b-3p	-1.2	7.61E-02	1.00E+00	439
miR-25-5p	1.3	7.65E-02	1.00E+00	37
miR-33a-5p	1.4	7.67E-02	1.00E+00	6
miR-1294	1.4	8.99E-02	1.00E+00	56
miR-652-3p	1.2	9.10E-02	1.00E+00	52
miR-625-5p	1.4	9.20E-02	1.00E+00	8
miR-378a-5p	-1.5	9.48E-02	1.00E+00	8
miR-1287-5p	1.3	9.80E-02	1.00E+00	14
miR-28-5p	-1.5	1.10E-01	1.00E+00	6

miR-483-3p	-1.5	1.14E-01	1.00E+00	117
miR-625-3p	1.3	1.16E-01	1.00E+00	528
miR-143-3p	1.2	1.18E-01	1.00E+00	873
miR-96-5p	-1.4	1.21E-01	1.00E+00	93
miR-181c-5p	-1.4	1.30E-01	1.00E+00	12
miR-196b-5p	1.3	1.31E-01	1.00E+00	202
miR-485-3p	-1.4	1.35E-01	1.00E+00	180
miR-629-5p	1.2	1.35E-01	1.00E+00	198
miR-503-5p	1.3	1.36E-01	1.00E+00	30
miR-423-5p	1.2	1.37E-01	1.00E+00	6692
miR-4646-3p	-1.3	1.45E-01	1.00E+00	7
miR-556-3p	-1.6	1.53E-01	1.00E+00	4
miR-324-3p	1.2	1.60E-01	1.00E+00	31
miR-548a-3p	-1.6	1.60E-01	1.00E+00	4
miR-487b-5p	-1.5	1.66E-01	1.00E+00	5
miR-548l	1.3	1.71E-01	1.00E+00	8
miR-377-3p	-1.5	1.79E-01	1.00E+00	5
miR-140-3p	-1.2	1.80E-01	1.00E+00	650
miR-2110	1.2	1.85E-01	1.00E+00	55
let-7d-3p	1.1	1.91E-01	1.00E+00	317
miR-140-5p	1.2	1.94E-01	1.00E+00	49
miR-484	1.2	1.95E-01	1.00E+00	2471
miR-454-3p	1.3	1.96E-01	1.00E+00	157
miR-196a-5p	1.5	1.99E-01	1.00E+00	7
miR-3613-5p	1.3	2.04E-01	1.00E+00	415
miR-150-5p	-1.3	2.05E-01	1.00E+00	1679
miR-142-3p	1.2	2.10E-01	1.00E+00	1340
miR-99b-5p	-1.3	2.10E-01	1.00E+00	511
miR-130b-3p	1.2	2.13E-01	1.00E+00	24
miR-664b-5p	1.2	2.24E-01	1.00E+00	12
miR-1	-1.3	2.27E-01	1.00E+00	132
miR-17-3p	-1.3	2.29E-01	1.00E+00	7
miR-125b-2-3p	-1.5	2.34E-01	1.00E+00	5
let-7f-5p	1.2	2.39E-01	1.00E+00	19987
miR-7151-3p	-1.5	2.43E-01	1.00E+00	4
miR-95-3p	-1.4	2.43E-01	1.00E+00	6
miR-494-3p	-1.3	2.47E-01	1.00E+00	12
miR-942-5p	1.2	2.50E-01	1.00E+00	77
miR-98-5p	1.1	2.52E-01	1.00E+00	201
miR-1260a	1.3	2.55E-01	1.00E+00	10
miR-338-3p	-1.2	2.69E-01	1.00E+00	18

miR-4738-3p	1.5	2.73E-01	1.00E+00	4
miR-100-5p	-1.3	2.74E-01	1.00E+00	85
miR-3168	-1.4	2.78E-01	1.00E+00	31
miR-1538	1.3	2.78E-01	1.00E+00	5
miR-548d-5p	1.3	2.79E-01	1.00E+00	11
miR-185-3p	1.1	2.80E-01	1.00E+00	85
miR-34a-5p	-1.2	2.80E-01	1.00E+00	14
miR-382-5p	-1.3	2.83E-01	1.00E+00	489
miR-26b-3p	1.2	2.87E-01	1.00E+00	7
miR-550a-3p	1.3	2.87E-01	1.00E+00	11
miR-6805-5p	1.3	2.89E-01	1.00E+00	7
miR-6515-3p	1.3	2.92E-01	1.00E+00	5
miR-27a-3p	-1.1	2.93E-01	1.00E+00	125
miR-210-3p	1.3	2.96E-01	1.00E+00	11
miR-345-5p	-1.2	3.04E-01	1.00E+00	22
miR-26b-5p	1.1	3.04E-01	1.00E+00	5431
miR-1292-5p	-1.2	3.05E-01	1.00E+00	9
miR-3605-3p	1.2	3.08E-01	1.00E+00	37
miR-664a-5p	1.1	3.09E-01	1.00E+00	132
miR-1908-5p	1.2	3.15E-01	1.00E+00	75
miR-16-2-3p	1.2	3.17E-01	1.00E+00	28
miR-337-5p	-1.4	3.17E-01	1.00E+00	5
miR-192-5p	-1.2	3.18E-01	1.00E+00	550
miR-10b-5p	-1.2	3.20E-01	1.00E+00	525
miR-148a-3p	-1.1	3.27E-01	1.00E+00	2413
miR-181a-2-3p	-1.2	3.29E-01	1.00E+00	46
miR-31-5p	1.7	3.31E-01	1.00E+00	4
miR-1247-5p	-1.3	3.32E-01	1.00E+00	7
miR-3173-5p	1.1	3.32E-01	1.00E+00	23
miR-431-5p	-1.2	3.33E-01	1.00E+00	134
miR-6741-5p	1.3	3.34E-01	1.00E+00	6
miR-186-5p	1.1	3.34E-01	1.00E+00	279
miR-532-3p	1.2	3.37E-01	1.00E+00	42
let-7b-3p	-1.2	3.37E-01	1.00E+00	12
miR-1249	-1.2	3.40E-01	1.00E+00	19
miR-374a-3p	1.2	3.45E-01	1.00E+00	13
miR-191-5p	-1.1	3.52E-01	1.00E+00	4263
miR-342-3p	-1.2	3.57E-01	1.00E+00	3886
miR-4742-3p	1.2	3.60E-01	1.00E+00	16
miR-4669	1.6	3.62E-01	1.00E+00	5
let-7i-5p	1.1	3.66E-01	1.00E+00	24167

miR-1296-5p	1.2	3.66E-01	1.00E+00	8
miR-4467	-1.6	3.67E-01	1.00E+00	4
miR-4732-5p	1.2	3.67E-01	1.00E+00	172
miR-3198	1.2	3.68E-01	1.00E+00	5
miR-107	1.2	3.69E-01	1.00E+00	265
miR-223-5p	1.1	3.72E-01	1.00E+00	415
miR-505-5p	1.2	3.73E-01	1.00E+00	12
miR-15b-3p	1.2	3.74E-01	1.00E+00	31
miR-1246	-1.2	3.76E-01	1.00E+00	17
miR-92b-3p	1.1	3.77E-01	1.00E+00	630
miR-222-3p	1.1	3.82E-01	1.00E+00	84
miR-6786-3p	1.3	3.86E-01	1.00E+00	6
miR-136-3p	-1.3	3.86E-01	1.00E+00	9
miR-148a-5p	-1.2	3.87E-01	1.00E+00	8
miR-1270	-1.2	3.88E-01	1.00E+00	16
miR-3613-3p	-1.3	3.91E-01	1.00E+00	5
miR-627-5p	1.2	3.91E-01	1.00E+00	5
miR-1226-3p	1.2	3.91E-01	1.00E+00	13
let-7c-5p	-1.1	3.92E-01	1.00E+00	579
miR-221-3p	-1.1	3.94E-01	1.00E+00	1580
miR-628-3p	1.1	3.96E-01	1.00E+00	83
miR-15b-5p	1.2	3.96E-01	1.00E+00	474
miR-487b-3p	-1.3	4.03E-01	1.00E+00	9
miR-3187-3p	-1.1	4.11E-01	1.00E+00	18
miR-4732-3p	1.2	4.12E-01	1.00E+00	230
miR-4435	1.2	4.14E-01	1.00E+00	4
miR-320a	1.1	4.16E-01	1.00E+00	1427
miR-6764-5p	1.2	4.17E-01	1.00E+00	4
miR-491-5p	1.2	4.18E-01	1.00E+00	17
miR-365b-3p	-1.3	4.20E-01	1.00E+00	5
miR-1976	1.2	4.20E-01	1.00E+00	48
miR-139-5p	-1.2	4.23E-01	1.00E+00	11
miR-654-3p	-1.2	4.24E-01	1.00E+00	82
miR-3928-3p	-1.2	4.26E-01	1.00E+00	6
miR-92a-3p	1.1	4.28E-01	1.00E+00	153484
let-7d-5p	1.1	4.30E-01	1.00E+00	1729
miR-7706	1.2	4.33E-01	1.00E+00	16
miR-103a-3p	1.1	4.38E-01	1.00E+00	6256
miR-485-5p	-1.2	4.45E-01	1.00E+00	93
let-7a-5p	1.1	4.49E-01	1.00E+00	31676
miR-376c-3p	-1.3	4.50E-01	1.00E+00	8

miR-301a-3p	1.1	4.57E-01	1.00E+00	21
miR-125a-5p	-1.1	4.66E-01	1.00E+00	2273
miR-486-3p	1.1	4.66E-01	1.00E+00	100
miR-30e-5p	1.1	4.70E-01	1.00E+00	4051
miR-191-3p	-1.2	4.78E-01	1.00E+00	17
miR-29c-5p	1.1	4.80E-01	1.00E+00	12
miR-1179	1.2	4.82E-01	1.00E+00	6
miR-134-5p	-1.2	4.82E-01	1.00E+00	241
miR-411-5p	-1.2	4.91E-01	1.00E+00	23
miR-136-5p	1.2	4.93E-01	1.00E+00	4
miR-425-5p	1.1	4.99E-01	1.00E+00	5463
miR-320d	-1.1	5.07E-01	1.00E+00	28
miR-5187-5p	1.2	5.10E-01	1.00E+00	10
miR-190a-5p	1.2	5.11E-01	1.00E+00	159
miR-7110-3p	1.3	5.13E-01	1.00E+00	3
miR-193a-5p	-1.1	5.24E-01	1.00E+00	88
miR-493-3p	-1.2	5.24E-01	1.00E+00	14
miR-532-5p	1.1	5.24E-01	1.00E+00	213
miR-106a-5p	1.1	5.26E-01	1.00E+00	10
miR-3127-5p	1.2	5.27E-01	1.00E+00	6
miR-197-3p	1.1	5.35E-01	1.00E+00	436
miR-18b-3p	-1.2	5.36E-01	1.00E+00	6
let-7a-3p	-1.1	5.36E-01	1.00E+00	6
miR-323b-3p	-1.2	5.45E-01	1.00E+00	51
miR-25-3p	1.1	5.50E-01	1.00E+00	13596
miR-1343-3p	-1.1	5.50E-01	1.00E+00	9
miR-194-5p	-1.1	5.50E-01	1.00E+00	175
miR-20b-5p	-1.1	5.52E-01	1.00E+00	174
miR-381-3p	-1.1	5.52E-01	1.00E+00	66
miR-7976	1.2	5.57E-01	1.00E+00	10
miR-1180-3p	1.1	5.61E-01	1.00E+00	191
miR-127-5p	1.1	5.62E-01	1.00E+00	4
miR-221-5p	-1.1	5.72E-01	1.00E+00	20
miR-23b-3p	-1.0	5.76E-01	1.00E+00	86
let-7g-5p	1.1	5.79E-01	1.00E+00	1962
miR-92b-5p	1.1	5.80E-01	1.00E+00	47
miR-3615	1.1	5.81E-01	1.00E+00	635
miR-29c-3p	-1.1	5.81E-01	1.00E+00	648
miR-32-5p	1.1	5.82E-01	1.00E+00	308
miR-5010-3p	-1.1	5.83E-01	1.00E+00	9
miR-143-5p	-1.1	5.94E-01	1.00E+00	8

miR-324-5p	1.1	5.96E-01	1.00E+00	128
miR-375	-1.1	5.99E-01	1.00E+00	404
miR-3200-5p	1.2	6.00E-01	1.00E+00	6
miR-766-3p	1.1	6.01E-01	1.00E+00	11
miR-18a-3p	-1.1	6.01E-01	1.00E+00	51
miR-584-5p	1.1	6.04E-01	1.00E+00	1358
miR-1260b	1.1	6.10E-01	1.00E+00	14
miR-342-5p	-1.2	6.12E-01	1.00E+00	5
miR-409-3p	-1.1	6.12E-01	1.00E+00	846
miR-10a-5p	-1.0	6.17E-01	1.00E+00	572
miR-3200-3p	1.1	6.17E-01	1.00E+00	7
miR-7-5p	1.1	6.17E-01	1.00E+00	545
miR-378c	-1.2	6.18E-01	1.00E+00	5
miR-323a-3p	-1.1	6.22E-01	1.00E+00	36
miR-3177-3p	-1.1	6.23E-01	1.00E+00	8
miR-3913-5p	1.1	6.31E-01	1.00E+00	9
miR-101-3p	1.1	6.33E-01	1.00E+00	4474
miR-548ay-5p	1.1	6.34E-01	1.00E+00	12
miR-224-5p	-1.1	6.38E-01	1.00E+00	18
miR-548j-5p	1.1	6.38E-01	1.00E+00	54
miR-146b-5p	-1.1	6.39E-01	1.00E+00	374
miR-148b-5p	-1.1	6.41E-01	1.00E+00	16
miR-370-3p	1.1	6.41E-01	1.00E+00	55
miR-502-3p	1.1	6.41E-01	1.00E+00	31
miR-3620-3p	-1.1	6.48E-01	1.00E+00	4
miR-320c	-1.1	6.53E-01	1.00E+00	51
miR-21-3p	-1.1	6.57E-01	1.00E+00	9
miR-4750-5p	1.2	6.59E-01	1.00E+00	4
miR-30d-5p	1.0	6.60E-01	1.00E+00	18694
miR-152-3p	1.1	6.64E-01	1.00E+00	142
miR-941	1.1	6.66E-01	1.00E+00	172
miR-21-5p	1.0	6.67E-01	1.00E+00	15203
miR-4433-5p	1.1	6.67E-01	1.00E+00	6
miR-15a-5p	1.1	6.68E-01	1.00E+00	409
miR-3158-3p	-1.1	6.69E-01	1.00E+00	15
miR-542-3p	1.1	6.72E-01	1.00E+00	13
miR-744-5p	-1.1	6.75E-01	1.00E+00	455
miR-589-5p	-1.1	6.76E-01	1.00E+00	20
let-7e-5p	-1.1	6.77E-01	1.00E+00	182
miR-671-3p	1.1	6.89E-01	1.00E+00	27
miR-5698	1.2	6.90E-01	1.00E+00	5

miR-423-3p	1.1	6.92E-01	1.00E+00	1036
miR-636	1.1	6.93E-01	1.00E+00	18
miR-1277-5p	1.1	6.93E-01	1.00E+00	20
miR-486-5p	1.1	6.95E-01	1.00E+00	267381
miR-505-3p	-1.1	7.00E-01	1.00E+00	8
miR-432-5p	-1.1	7.05E-01	1.00E+00	915
miR-361-3p	1.1	7.08E-01	1.00E+00	366
miR-127-3p	-1.1	7.10E-01	1.00E+00	24
miR-3138	1.1	7.14E-01	1.00E+00	11
miR-320b	1.0	7.15E-01	1.00E+00	67
miR-1273h-3p	1.1	7.16E-01	1.00E+00	18
miR-1468-5p	1.1	7.20E-01	1.00E+00	8
miR-142-5p	1.0	7.23E-01	1.00E+00	2015
miR-6780a-5p	-1.2	7.23E-01	1.00E+00	5
miR-18a-5p	1.1	7.25E-01	1.00E+00	32
miR-501-5p	-1.1	7.29E-01	1.00E+00	5
miR-200a-3p	1.1	7.30E-01	1.00E+00	17
miR-130a-3p	1.0	7.33E-01	1.00E+00	56
miR-218-5p	1.3	7.34E-01	1.00E+00	5
miR-4433b-3p	1.1	7.36E-01	1.00E+00	44
miR-452-5p	-1.1	7.39E-01	1.00E+00	6
miR-23b-5p	1.1	7.40E-01	1.00E+00	7
miR-874-3p	-1.0	7.41E-01	1.00E+00	15
miR-760	-1.1	7.42E-01	1.00E+00	28
miR-146b-3p	-1.1	7.43E-01	1.00E+00	12
miR-664a-3p	1.1	7.48E-01	1.00E+00	13
miR-628-5p	-1.1	7.50E-01	1.00E+00	18
miR-30e-3p	-1.0	7.50E-01	1.00E+00	185
miR-4685-3p	1.1	7.54E-01	1.00E+00	10
miR-6881-3p	-1.1	7.56E-01	1.00E+00	6
miR-6842-3p	-1.1	7.57E-01	1.00E+00	10
miR-590-3p	-1.0	7.57E-01	1.00E+00	18
miR-3688-3p	1.1	7.59E-01	1.00E+00	11
miR-24-3p	1.0	7.60E-01	1.00E+00	592
miR-5193	1.1	7.63E-01	1.00E+00	5
miR-145-5p	1.1	7.63E-01	1.00E+00	15
miR-6747-3p	-1.0	7.65E-01	1.00E+00	9
miR-1237-3p	-1.1	7.66E-01	1.00E+00	7
miR-1307-5p	1.1	7.68E-01	1.00E+00	18
miR-369-5p	-1.1	7.69E-01	1.00E+00	34
miR-181d-5p	-1.1	7.72E-01	1.00E+00	21

miR-4446-3p	-1.1	7.73E-01	1.00E+00	25
miR-6511a-3p	1.1	7.74E-01	1.00E+00	9
miR-5189-5p	1.1	7.75E-01	1.00E+00	4
miR-199a-3p	1.0	7.75E-01	1.00E+00	2127
miR-769-5p	-1.0	7.77E-01	1.00E+00	28
miR-1255b-5p	1.1	7.78E-01	1.00E+00	44
miR-4433b-5p	1.1	7.79E-01	1.00E+00	3099
miR-16-5p	1.1	7.79E-01	1.00E+00	310612
miR-30c-5p	1.0	7.80E-01	1.00E+00	51
miR-26a-5p	1.0	7.81E-01	1.00E+00	5795
miR-182-5p	1.1	7.82E-01	1.00E+00	1635
miR-215-5p	-1.1	7.82E-01	1.00E+00	31
miR-495-3p	-1.1	7.88E-01	1.00E+00	4
miR-199b-5p	-1.1	7.93E-01	1.00E+00	6
miR-190b	1.0	7.95E-01	1.00E+00	22
miR-200b-3p	-1.1	7.97E-01	1.00E+00	15
miR-379-5p	-1.1	8.01E-01	1.00E+00	104
miR-19b-3p	-1.0	8.04E-01	1.00E+00	388
miR-126-5p	1.0	8.09E-01	1.00E+00	3886
miR-1304-3p	1.1	8.09E-01	1.00E+00	21
miR-421	1.0	8.11E-01	1.00E+00	35
miR-6803-3p	-1.0	8.13E-01	1.00E+00	24
miR-28-3p	-1.0	8.13E-01	1.00E+00	493
miR-151a-3p	-1.0	8.17E-01	1.00E+00	2949
miR-133a-3p	1.1	8.19E-01	1.00E+00	26
miR-146a-3p	-1.2	8.20E-01	1.00E+00	3
miR-361-5p	-1.0	8.22E-01	1.00E+00	225
miR-1306-5p	-1.0	8.24E-01	1.00E+00	437
miR-144-5p	-1.1	8.33E-01	1.00E+00	147
miR-126-3p	-1.0	8.37E-01	1.00E+00	13164
miR-330-3p	-1.0	8.38E-01	1.00E+00	9
miR-199b-3p	1.0	8.39E-01	1.00E+00	1710
miR-331-3p	1.0	8.41E-01	1.00E+00	13
miR-339-5p	-1.0	8.44E-01	1.00E+00	231
miR-424-5p	1.1	8.44E-01	1.00E+00	7
miR-378a-3p	1.0	8.45E-01	1.00E+00	185
miR-23a-3p	-1.0	8.45E-01	1.00E+00	785
miR-26a-1-3p	-1.1	8.47E-01	1.00E+00	7
miR-30b-5p	-1.0	8.47E-01	1.00E+00	19
miR-183-5p	-1.0	8.48E-01	1.00E+00	703
miR-150-3p	-1.1	8.49E-01	1.00E+00	12

miR-6741-3p	-1.0	8.53E-01	1.00E+00	15
miR-335-5p	-1.0	8.53E-01	1.00E+00	286
miR-671-5p	-1.0	8.53E-01	1.00E+00	65
let-7b-5p	1.0	8.56E-01	1.00E+00	30143
miR-30d-3p	1.1	8.59E-01	1.00E+00	6
miR-106b-3p	-1.0	8.59E-01	1.00E+00	616
miR-6511b-3p	-1.0	8.63E-01	1.00E+00	9
miR-6772-3p	-1.1	8.64E-01	1.00E+00	8
miR-1229-3p	-1.0	8.65E-01	1.00E+00	11
miR-106b-5p	-1.0	8.65E-01	1.00E+00	27
miR-181b-5p	-1.0	8.66E-01	1.00E+00	183
miR-20a-5p	1.0	8.67E-01	1.00E+00	410
miR-363-3p	1.0	8.67E-01	1.00E+00	468
miR-181c-3p	1.1	8.68E-01	1.00E+00	9
miR-660-5p	1.0	8.70E-01	1.00E+00	356
miR-6721-5p	1.0	8.74E-01	1.00E+00	13
miR-181a-5p	1.0	8.75E-01	1.00E+00	1516
miR-148b-3p	1.0	8.76E-01	1.00E+00	902
miR-151a-5p	-1.0	8.82E-01	1.00E+00	26
miR-99b-3p	-1.0	8.85E-01	1.00E+00	9
miR-146a-5p	1.0	8.85E-01	1.00E+00	5516
miR-296-5p	-1.0	8.86E-01	1.00E+00	30
miR-2355-3p	1.1	8.87E-01	1.00E+00	7
miR-185-5p	-1.0	8.96E-01	1.00E+00	2212
miR-10a-3p	1.0	8.96E-01	1.00E+00	4
miR-130b-5p	1.0	8.98E-01	1.00E+00	15
miR-30a-3p	1.0	8.99E-01	1.00E+00	31
miR-141-3p	-1.0	9.02E-01	1.00E+00	23
miR-19a-3p	-1.0	9.03E-01	1.00E+00	108
miR-493-5p	-1.0	9.03E-01	1.00E+00	25
miR-651-5p	-1.0	9.06E-01	1.00E+00	13
miR-29b-3p	-1.0	9.13E-01	1.00E+00	118
miR-1307-3p	1.0	9.13E-01	1.00E+00	1217
miR-369-3p	-1.0	9.16E-01	1.00E+00	27
miR-155-5p	1.0	9.18E-01	1.00E+00	435
miR-17-5p	1.0	9.21E-01	1.00E+00	162
miR-181a-3p	-1.0	9.27E-01	1.00E+00	31
miR-335-3p	-1.0	9.29E-01	1.00E+00	29
miR-326	1.0	9.31E-01	1.00E+00	47
miR-374b-5p	1.0	9.31E-01	1.00E+00	31
miR-501-3p	1.0	9.33E-01	1.00E+00	144

miR-4665-5p	-1.0	9.38E-01	1.00E+00	4
miR-1301-3p	-1.0	9.38E-01	1.00E+00	57
miR-889-3p	1.0	9.43E-01	1.00E+00	36
miR-454-5p	1.0	9.44E-01	1.00E+00	21
miR-139-3p	1.0	9.46E-01	1.00E+00	226
miR-132-3p	1.0	9.47E-01	1.00E+00	32
miR-451a	1.0	9.54E-01	1.00E+00	14636
miR-22-5p	-1.0	9.57E-01	1.00E+00	7
miR-340-5p	-1.0	9.58E-01	1.00E+00	211
miR-500a-3p	-1.0	9.61E-01	1.00E+00	23
miR-128-3p	1.0	9.61E-01	1.00E+00	380
miR-450b-5p	1.0	9.65E-01	1.00E+00	7
miR-223-3p	-1.0	9.70E-01	1.00E+00	9090
miR-576-5p	1.0	9.72E-01	1.00E+00	183
miR-574-3p	1.0	9.72E-01	1.00E+00	49
miR-200c-3p	-1.0	9.77E-01	1.00E+00	58
miR-339-3p	1.0	9.78E-01	1.00E+00	44
miR-6852-5p	1.0	9.82E-01	1.00E+00	38
miR-93-3p	1.0	9.83E-01	1.00E+00	35
miR-93-5p	-1.0	9.85E-01	1.00E+00	7863
miR-144-3p	-1.0	9.89E-01	1.00E+00	223
miR-374a-5p	1.0	9.92E-01	1.00E+00	141
miR-328-3p	-1.0	9.95E-01	1.00E+00	1229
miR-425-3p	-1.0	9.99E-01	1.00E+00	92
miR-4533	-1.1	1.00E+00	1.00E+00	4
miR-3940-3p	1.0	1.00E+00	1.00E+00	9
miR-5010-5p	1.0	1.00E+00	1.00E+00	7
miR-195-5p	-1.0	1.00E+00	1.00E+00	33
miR-409-5p	-1.0	1.00E+00	1.00E+00	6
miR-199a-5p	-1.0	1.00E+00	1.00E+00	29

Table S3. Differential expression analysis of 458 miRNAs detected in plasma between women with (n=35) and without (n=40) acute coronary syndrome. MiRNA levels are expressed as mean counts per million mapped reads (CPM). MiRNAs are listed in descending order of statistical significance.

miRNA	Fold Change (ACS/non-ACS)	p value	FDR-adjusted p value	miR level (CPM)
miR-208b-3p	148.0	1.18E-23	5.39E-21	37
miR-29a-3p	2.2	3.12E-23	7.14E-21	726
miR-378a-3p	2.4	3.39E-18	5.18E-16	303
miR-30a-5p	2.3	2.48E-17	2.84E-15	828
miR-499a-5p	34.2	8.30E-17	7.60E-15	19
miR-193a-5p	3.3	1.08E-16	8.24E-15	181
miR-34a-5p	3.9	1.32E-16	8.64E-15	32
miR-10b-5p	2.5	4.51E-16	2.53E-14	897
miR-195-5p	2.8	4.98E-16	2.53E-14	61
miR-483-5p	4.4	7.31E-16	3.35E-14	305
miR-320c	2.3	1.01E-13	4.20E-12	84
miR-320d	2.3	1.39E-13	5.30E-12	45
miR-99a-5p	2.4	1.53E-13	5.38E-12	214
miR-320b	2.1	4.78E-12	1.56E-10	103
miR-1306-5p	-1.9	7.19E-12	2.19E-10	369
miR-194-5p	2.5	7.64E-12	2.19E-10	298
miR-184	11.7	9.00E-12	2.43E-10	24
miR-193b-5p	4.3	1.07E-11	2.73E-10	43
miR-29c-3p	1.8	2.87E-11	6.91E-10	896
miR-208a-3p	15.2	7.87E-11	1.80E-09	3
miR-221-5p	-3.4	9.56E-11	2.08E-09	16
miR-206	6.9	4.15E-10	8.65E-09	127
miR-4433b-5p	-4.0	7.04E-10	1.38E-08	2369
miR-6772-3p	-4.1	7.21E-10	1.38E-08	7
miR-378c	2.9	8.02E-10	1.47E-08	9
miR-423-3p	-2.1	1.84E-09	3.24E-08	858
miR-5010-3p	-3.3	2.07E-09	3.52E-08	8
miR-584-5p	-2.2	2.23E-09	3.64E-08	1129
miR-328-3p	-2.3	4.61E-09	7.28E-08	1034
miR-4646-3p	-3.0	5.76E-09	8.79E-08	6
miR-95-3p	2.9	1.03E-08	1.52E-07	11
miR-127-3p	-4.1	1.45E-08	2.07E-07	19
miR-30e-3p	-1.9	1.67E-08	2.32E-07	158

miR-103a-3p	-1.7	1.95E-08	2.63E-07	5337
miR-98-5p	-1.6	2.16E-08	2.82E-07	174
let-7i-5p	-1.4	2.29E-08	2.92E-07	21241
miR-197-3p	-2.1	2.60E-08	3.21E-07	375
miR-1301-3p	-2.8	2.86E-08	3.45E-07	46
miR-125b-5p	2.0	3.51E-08	4.12E-07	899
miR-339-5p	-2.4	5.74E-08	6.58E-07	191
miR-125b-2-3p	3.6	6.46E-08	7.21E-07	10
miR-26b-5p	-1.5	7.87E-08	8.58E-07	4744
miR-6803-3p	-2.0	8.60E-08	9.16E-07	21
miR-744-5p	-2.1	1.43E-07	1.49E-06	384
miR-1	3.4	1.55E-07	1.58E-06	296
miR-23b-3p	1.5	1.78E-07	1.76E-06	116
miR-374a-5p	-1.8	1.81E-07	1.76E-06	118
miR-30d-5p	-1.7	1.93E-07	1.84E-06	16794
miR-125b-1-3p	6.3	2.98E-07	2.78E-06	4
miR-1307-3p	-1.9	3.30E-07	3.03E-06	1047
miR-335-3p	-2.6	4.06E-07	3.65E-06	24
miR-874-3p	1.9	5.28E-07	4.65E-06	23
miR-100-5p	2.3	5.54E-07	4.79E-06	132
miR-148a-3p	1.5	5.72E-07	4.85E-06	3030
miR-122-5p	3.1	6.56E-07	5.42E-06	30458
miR-99b-5p	-2.0	6.63E-07	5.42E-06	437
miR-885-3p	4.1	6.85E-07	5.51E-06	34
miR-27a-3p	1.4	7.43E-07	5.87E-06	160
miR-1229-3p	-2.6	1.43E-06	1.11E-05	10
miR-130b-3p	1.8	1.51E-06	1.16E-05	34
miR-1273h-3p	-2.7	1.64E-06	1.23E-05	15
miR-485-3p	-3.1	1.72E-06	1.27E-05	136
miR-365a-3p	2.8	2.21E-06	1.58E-05	9
miR-409-3p	-2.8	2.21E-06	1.58E-05	654
miR-21-5p	1.4	2.26E-06	1.59E-05	18833
miR-3620-3p	-4.4	2.45E-06	1.70E-05	4
miR-485-5p	-2.8	2.56E-06	1.75E-05	73
miR-543	-3.1	2.65E-06	1.79E-05	6
miR-1246	2.0	2.84E-06	1.88E-05	25
miR-1908-5p	-1.9	2.87E-06	1.88E-05	67
miR-6842-3p	-2.3	3.32E-06	2.14E-05	9
miR-192-5p	1.7	3.75E-06	2.38E-05	730
miR-652-3p	-1.7	6.26E-06	3.90E-05	45
miR-378i	2.2	6.30E-06	3.90E-05	7

miR-4446-3p	-2.8	6.57E-06	4.01E-05	21
miR-548j-5p	-2.2	8.20E-06	4.94E-05	46
miR-6747-3p	-2.2	8.31E-06	4.94E-05	8
miR-215-5p	2.6	8.41E-06	4.94E-05	54
miR-10a-5p	1.5	9.16E-06	5.31E-05	752
miR-326	-2.6	9.37E-06	5.36E-05	39
miR-122-3p	4.6	9.81E-06	5.55E-05	4
miR-4433-5p	-2.8	1.20E-05	6.69E-05	6
miR-5193	-3.3	1.21E-05	6.70E-05	5
miR-30a-3p	1.7	1.28E-05	6.98E-05	43
miR-493-5p	-2.8	1.41E-05	7.61E-05	21
miR-6721-5p	-2.8	1.69E-05	8.99E-05	11
miR-889-3p	-2.9	1.88E-05	9.92E-05	30
miR-151a-3p	-1.7	2.18E-05	1.14E-04	2627
miR-432-5p	-2.5	2.60E-05	1.34E-04	736
miR-454-3p	-1.8	2.69E-05	1.37E-04	126
miR-27b-3p	1.5	3.20E-05	1.61E-04	588
miR-6741-3p	-2.0	3.24E-05	1.61E-04	14
miR-126-3p	-1.5	3.63E-05	1.79E-04	12027
miR-379-5p	-2.4	3.82E-05	1.86E-04	85
miR-1277-5p	-2.1	3.92E-05	1.87E-04	18
miR-500a-3p	1.6	3.95E-05	1.87E-04	30
miR-671-3p	-2.3	3.97E-05	1.87E-04	24
miR-5698	-4.2	4.21E-05	1.97E-04	5
miR-331-3p	-2.1	4.28E-05	1.98E-04	12
miR-625-3p	-2.0	4.48E-05	2.05E-04	471
miR-10b-3p	2.5	4.63E-05	2.10E-04	6
miR-1249	-2.2	5.69E-05	2.56E-04	17
miR-3065-5p	2.7	6.32E-05	2.79E-04	6
miR-26a-5p	-1.3	6.34E-05	2.79E-04	5364
miR-1304-3p	-2.0	6.68E-05	2.91E-04	19
miR-374b-5p	-1.6	6.74E-05	2.91E-04	28
miR-654-3p	-2.4	7.06E-05	3.02E-04	68
miR-320a	1.4	7.83E-05	3.32E-04	1742
miR-4429	2.5	8.75E-05	3.65E-04	5
miR-92b-5p	-1.6	8.77E-05	3.65E-04	41
miR-1296-5p	-2.4	9.09E-05	3.75E-04	8
miR-182-5p	-1.7	1.02E-04	4.12E-04	1298
miR-664a-3p	-2.1	1.02E-04	4.12E-04	12
miR-4433b-3p	-3.7	1.02E-04	4.12E-04	34
miR-483-3p	2.1	1.04E-04	4.16E-04	177

miR-590-3p	-1.7	1.09E-04	4.32E-04	17
miR-369-5p	-2.4	1.20E-04	4.68E-04	28
miR-141-3p	2.2	1.27E-04	4.95E-04	37
miR-323a-3p	-2.2	1.36E-04	5.24E-04	31
miR-223-3p	-1.8	1.37E-04	5.25E-04	8005
miR-6852-5p	-2.2	1.46E-04	5.53E-04	33
miR-1179	-2.1	1.54E-04	5.78E-04	6
miR-411-5p	-2.4	1.59E-04	5.93E-04	20
miR-3138	-2.1	1.70E-04	6.30E-04	10
miR-1260b	-2.2	1.85E-04	6.78E-04	13
miR-381-3p	-2.3	1.90E-04	6.91E-04	54
miR-628-3p	-1.6	1.95E-04	7.03E-04	76
miR-185-3p	-1.5	2.13E-04	7.63E-04	79
miR-4685-3p	-1.8	2.37E-04	8.42E-04	9
miR-365b-3p	2.3	2.55E-04	8.97E-04	8
miR-17-5p	-1.5	2.76E-04	9.66E-04	142
miR-382-5p	-2.1	2.81E-04	9.74E-04	402
miR-211-5p	2.5	2.94E-04	1.01E-03	5
miR-199a-5p	-2.1	2.98E-04	1.02E-03	25
miR-181d-5p	-1.9	3.05E-04	1.03E-03	19
miR-32-5p	1.7	3.35E-04	1.13E-03	402
miR-324-5p	-1.6	3.40E-04	1.13E-03	108
let-7g-5p	-1.4	3.42E-04	1.13E-03	1689
miR-10a-3p	2.4	3.63E-04	1.20E-03	6
miR-5187-5p	-2.0	3.83E-04	1.25E-03	9
miR-28-3p	-1.6	4.20E-04	1.36E-03	454
miR-151a-5p	-1.6	4.47E-04	1.43E-03	24
miR-766-3p	-2.6	4.47E-04	1.43E-03	10
miR-130b-5p	-1.9	4.49E-04	1.43E-03	14
miR-431-5p	-2.2	4.74E-04	1.50E-03	112
miR-133a-3p	2.5	5.46E-04	1.71E-03	47
miR-877-3p	-2.1	5.74E-04	1.79E-03	7
miR-200b-3p	2.2	5.79E-04	1.79E-03	23
miR-181c-5p	-1.8	6.18E-04	1.89E-03	11
miR-491-5p	-2.0	6.21E-04	1.89E-03	15
miR-181c-3p	-2.2	6.24E-04	1.89E-03	9
miR-107	1.5	6.52E-04	1.97E-03	328
miR-196a-5p	2.3	6.81E-04	2.04E-03	11
miR-4742-3p	-1.6	6.98E-04	2.07E-03	14
miR-128-3p	-1.3	7.01E-04	2.07E-03	364
miR-1226-3p	-1.8	7.12E-04	2.09E-03	12

miR-191-5p	-1.4	7.54E-04	2.20E-03	3984
miR-425-3p	-1.4	8.07E-04	2.34E-03	87
let-7f-5p	-1.3	8.27E-04	2.38E-03	17925
miR-556-3p	-2.8	8.84E-04	2.53E-03	4
miR-424-5p	1.8	9.05E-04	2.57E-03	9
miR-3591-5p	4.0	9.51E-04	2.68E-03	3
miR-365a-5p	3.8	9.55E-04	2.68E-03	4
miR-143-5p	1.9	9.84E-04	2.75E-03	11
miR-143-3p	1.6	1.07E-03	2.97E-03	1159
miR-210-3p	1.8	1.09E-03	2.99E-03	16
miR-497-5p	2.2	1.17E-03	3.22E-03	5
miR-487b-5p	-2.4	1.24E-03	3.39E-03	5
miR-199b-3p	-1.6	1.34E-03	3.63E-03	1572
miR-425-5p	-1.4	1.40E-03	3.77E-03	4999
miR-31-5p	3.4	1.41E-03	3.78E-03	6
miR-26a-1-3p	-2.1	1.45E-03	3.83E-03	7
miR-155-5p	-1.3	1.45E-03	3.83E-03	414
miR-190a-5p	-1.7	1.66E-03	4.36E-03	128
miR-4428	3.6	1.71E-03	4.48E-03	2
miR-140-3p	1.4	1.73E-03	4.48E-03	781
miR-221-3p	-1.4	1.73E-03	4.48E-03	1500
miR-4750-5p	-2.5	1.75E-03	4.50E-03	4
miR-676-3p	2.7	1.79E-03	4.58E-03	3
miR-370-3p	-2.1	1.83E-03	4.66E-03	47
miR-199a-3p	-1.6	1.90E-03	4.81E-03	1964
miR-628-5p	-1.9	1.95E-03	4.90E-03	17
miR-6807-5p	3.4	1.97E-03	4.92E-03	3
miR-150-3p	1.7	1.98E-03	4.92E-03	16
miR-7110-3p	-2.6	2.13E-03	5.27E-03	4
miR-19b-3p	1.4	2.19E-03	5.39E-03	467
miR-493-3p	-2.1	2.27E-03	5.56E-03	12
miR-301a-3p	-1.6	2.29E-03	5.58E-03	20
miR-323b-3p	-2.0	2.42E-03	5.86E-03	44
miR-92b-3p	-1.4	2.66E-03	6.42E-03	564
miR-139-3p	-1.6	2.71E-03	6.50E-03	214
miR-200a-3p	1.9	2.77E-03	6.60E-03	25
miR-330-3p	-2.2	2.97E-03	7.05E-03	8
miR-3940-3p	-1.8	3.14E-03	7.41E-03	8
miR-329-3p	-2.1	3.32E-03	7.79E-03	8
miR-30b-5p	-1.5	3.43E-03	8.02E-03	17
miR-1260a	-1.8	3.46E-03	8.05E-03	10

miR-4667-5p	3.5	3.53E-03	8.16E-03	3
miR-6515-3p	-1.9	3.60E-03	8.29E-03	5
miR-452-5p	2.0	3.66E-03	8.38E-03	8
miR-28-5p	-2.0	3.76E-03	8.56E-03	5
miR-409-5p	-2.2	3.95E-03	8.95E-03	6
miR-501-3p	1.3	4.04E-03	9.09E-03	168
miR-134-5p	-1.8	4.06E-03	9.09E-03	206
miR-4732-5p	1.4	4.07E-03	9.09E-03	207
miR-433-3p	-2.5	4.28E-03	9.51E-03	4
miR-214-3p	2.1	4.34E-03	9.59E-03	5
miR-126-5p	-1.3	4.35E-03	9.59E-03	3778
miR-191-3p	-1.7	4.47E-03	9.80E-03	16
miR-296-5p	-1.5	4.57E-03	9.97E-03	27
miR-4533	-2.6	4.74E-03	1.03E-02	4
miR-532-5p	1.3	5.03E-03	1.09E-02	245
miR-148b-3p	-1.3	5.08E-03	1.09E-02	871
miR-340-5p	-1.4	5.23E-03	1.12E-02	201
miR-6881-3p	-1.8	5.31E-03	1.13E-02	6
miR-885-5p	2.1	5.33E-03	1.13E-02	12
miR-6730-3p	3.6	5.34E-03	1.13E-02	3
miR-185-5p	1.4	5.54E-03	1.16E-02	2589
miR-18a-3p	-1.4	5.54E-03	1.16E-02	45
miR-342-5p	-1.7	6.13E-03	1.27E-02	5
miR-15b-5p	1.4	6.13E-03	1.27E-02	556
miR-205-5p	1.5	6.15E-03	1.27E-02	70
miR-369-3p	-1.8	6.20E-03	1.27E-02	25
miR-223-5p	-1.4	6.22E-03	1.27E-02	400
miR-502-3p	1.4	6.93E-03	1.41E-02	37
miR-146a-5p	-1.4	7.60E-03	1.54E-02	5306
miR-148b-5p	-1.5	7.69E-03	1.55E-02	15
miR-15a-5p	1.4	7.80E-03	1.57E-02	489
let-7d-3p	-1.3	9.53E-03	1.91E-02	314
miR-378a-5p	1.6	9.94E-03	1.98E-02	10
miR-18a-5p	-1.4	9.97E-03	1.98E-02	30
miR-339-3p	-1.3	1.01E-02	1.99E-02	42
miR-27a-5p	2.0	1.04E-02	2.04E-02	4
miR-5189-5p	-2.0	1.06E-02	2.07E-02	4
miR-941	-1.4	1.16E-02	2.26E-02	159
miR-542-3p	1.5	1.25E-02	2.42E-02	16
miR-181a-2-3p	-1.4	1.25E-02	2.42E-02	44
miR-4665-5p	-1.8	1.40E-02	2.69E-02	5

miR-150-5p	1.5	1.40E-02	2.69E-02	2090
miR-1343-3p	-1.5	1.45E-02	2.77E-02	9
miR-96-5p	1.5	1.49E-02	2.83E-02	113
miR-92a-3p	-1.3	1.50E-02	2.83E-02	140962
miR-660-5p	1.2	1.64E-02	3.08E-02	407
miR-374a-3p	-1.5	1.64E-02	3.08E-02	13
miR-1538	-1.8	1.67E-02	3.13E-02	6
miR-4513	-5.6	1.85E-02	3.44E-02	4
miR-6805-5p	-1.6	1.88E-02	3.47E-02	7
miR-181a-3p	-1.5	1.88E-02	3.47E-02	30
miR-671-5p	-1.4	1.91E-02	3.52E-02	64
miR-142-5p	1.2	2.26E-02	4.15E-02	2247
miR-22-3p	1.3	2.28E-02	4.15E-02	584
miR-342-3p	-1.3	2.39E-02	4.34E-02	3780
miR-3200-5p	-1.6	2.44E-02	4.41E-02	6
let-7c-5p	1.2	2.50E-02	4.51E-02	654
miR-6511a-3p	-1.5	2.54E-02	4.55E-02	9
miR-3934-5p	2.7	2.54E-02	4.55E-02	3
miR-4714-3p	1.9	2.61E-02	4.66E-02	4
miR-200c-3p	1.4	2.67E-02	4.73E-02	73
miR-127-5p	-1.9	2.68E-02	4.74E-02	5
miR-636	-1.3	2.90E-02	5.11E-02	17
miR-190b	1.3	3.04E-02	5.34E-02	26
miR-2355-3p	-1.7	3.11E-02	5.44E-02	7
miR-376a-3p	-1.7	3.22E-02	5.62E-02	8
miR-146b-5p	-1.3	3.27E-02	5.68E-02	369
let-7b-3p	1.4	3.41E-02	5.89E-02	15
miR-183-5p	-1.3	3.45E-02	5.94E-02	610
miR-532-3p	1.3	4.00E-02	6.85E-02	48
miR-6741-5p	-1.5	4.01E-02	6.85E-02	6
miR-7976	-1.4	4.12E-02	7.01E-02	10
miR-1237-3p	-1.6	4.19E-02	7.10E-02	7
miR-132-3p	1.3	4.29E-02	7.26E-02	39
miR-154-5p	-1.7	4.41E-02	7.43E-02	4
miR-222-3p	1.2	4.58E-02	7.68E-02	98
miR-29b-3p	1.2	4.63E-02	7.74E-02	133
miR-3177-3p	-1.5	4.86E-02	8.10E-02	8
miR-486-5p	-1.3	4.95E-02	8.21E-02	242014
miR-574-3p	1.3	5.01E-02	8.28E-02	61
miR-3605-5p	1.5	5.02E-02	8.28E-02	6
miR-29c-5p	-1.3	5.26E-02	8.63E-02	12

miR-129-5p	1.7	5.33E-02	8.71E-02	5
miR-6767-5p	1.6	5.34E-02	8.71E-02	5
miR-6734-5p	1.7	5.70E-02	9.26E-02	5
miR-19a-3p	1.2	5.77E-02	9.33E-02	122
miR-18b-3p	-1.5	5.85E-02	9.43E-02	6
miR-204-5p	1.4	5.95E-02	9.56E-02	10
miR-337-5p	-1.7	6.18E-02	9.90E-02	5
miR-3064-5p	-1.5	6.38E-02	1.02E-01	4
miR-125a-5p	-1.2	6.40E-02	1.02E-01	2302
miR-30d-3p	-1.4	6.55E-02	1.04E-01	6
miR-3198	-1.6	6.60E-02	1.04E-01	5
miR-1299	2.0	6.63E-02	1.04E-01	16
miR-2116-3p	1.5	6.80E-02	1.07E-01	5
miR-9-3p	1.8	6.94E-02	1.09E-01	4
miR-1292-5p	-1.3	6.99E-02	1.09E-01	9
miR-6514-5p	-1.4	7.56E-02	1.17E-01	5
miR-376c-3p	-1.7	7.69E-02	1.19E-01	8
miR-548d-5p	1.4	7.71E-02	1.19E-01	13
miR-93-3p	-1.2	7.85E-02	1.21E-01	34
miR-421	1.2	8.11E-02	1.24E-01	40
miR-145-5p	1.3	8.51E-02	1.30E-01	18
miR-148a-5p	-1.5	8.63E-02	1.31E-01	8
miR-664a-5p	-1.2	8.71E-02	1.32E-01	133
miR-130a-3p	1.2	8.81E-02	1.33E-01	65
miR-99b-3p	-1.5	9.39E-02	1.42E-01	9
miR-625-5p	-1.4	9.44E-02	1.42E-01	8
miR-181a-5p	-1.2	9.50E-02	1.42E-01	1450
miR-450b-5p	1.4	9.65E-02	1.44E-01	9
miR-24-3p	-1.2	9.74E-02	1.45E-01	604
let-7a-5p	-1.2	9.84E-02	1.46E-01	29100
miR-20b-5p	1.2	9.85E-02	1.46E-01	194
miR-3682-3p	1.6	9.93E-02	1.46E-01	4
miR-451a	1.2	9.98E-02	1.46E-01	16308
miR-495-3p	-1.6	1.00E-01	1.46E-01	5
miR-4435	-1.7	1.00E-01	1.46E-01	4
miR-3187-3p	1.2	1.01E-01	1.47E-01	21
miR-769-5p	-1.2	1.04E-01	1.51E-01	28
miR-144-5p	1.3	1.05E-01	1.52E-01	166
miR-382-3p	-1.4	1.06E-01	1.53E-01	15
miR-6796-5p	2.0	1.07E-01	1.54E-01	3
miR-431-3p	-1.6	1.08E-01	1.55E-01	4

miR-4467	-1.7	1.09E-01	1.55E-01	4
miR-1976	-1.2	1.10E-01	1.57E-01	45
miR-627-5p	1.5	1.11E-01	1.57E-01	6
miR-136-5p	-1.5	1.13E-01	1.59E-01	5
miR-3173-5p	-1.2	1.13E-01	1.59E-01	23
miR-664b-5p	-1.4	1.14E-01	1.60E-01	12
miR-942-5p	-1.2	1.14E-01	1.60E-01	74
miR-487b-3p	-1.5	1.17E-01	1.63E-01	9
miR-125a-3p	1.5	1.36E-01	1.90E-01	4
miR-6511b-3p	-1.3	1.37E-01	1.90E-01	9
miR-1180-3p	-1.2	1.39E-01	1.92E-01	175
miR-145-3p	1.6	1.40E-01	1.93E-01	4
miR-338-3p	-1.3	1.47E-01	2.03E-01	18
miR-106a-5p	-1.2	1.49E-01	2.05E-01	10
miR-361-3p	-1.2	1.51E-01	2.06E-01	369
miR-140-5p	-1.1	1.56E-01	2.12E-01	48
miR-3679-5p	1.4	1.58E-01	2.15E-01	6
miR-486-3p	-1.2	1.68E-01	2.28E-01	93
miR-17-3p	1.3	1.74E-01	2.34E-01	9
miR-1250-5p	-1.7	1.77E-01	2.39E-01	3
miR-377-3p	-1.4	1.81E-01	2.43E-01	5
miR-1294	1.2	1.88E-01	2.51E-01	61
miR-642a-5p	1.5	1.93E-01	2.57E-01	4
miR-146a-3p	-1.7	1.93E-01	2.57E-01	4
miR-494-3p	-1.4	1.95E-01	2.59E-01	12
miR-5189-3p	-1.4	2.08E-01	2.75E-01	6
miR-7-5p	1.2	2.16E-01	2.85E-01	588
miR-22-5p	1.2	2.27E-01	2.99E-01	8
miR-7706	-1.2	2.33E-01	3.06E-01	16
miR-93-5p	-1.1	2.35E-01	3.08E-01	7639
miR-7151-3p	-1.5	2.38E-01	3.11E-01	5
miR-454-5p	-1.2	2.42E-01	3.14E-01	21
miR-23a-3p	-1.1	2.43E-01	3.15E-01	820
miR-6786-3p	-1.2	2.43E-01	3.15E-01	7
miR-30c-5p	1.1	2.47E-01	3.19E-01	57
miR-335-5p	1.2	2.48E-01	3.20E-01	345
miR-576-5p	-1.1	2.49E-01	3.20E-01	177
miR-6793-5p	1.4	2.51E-01	3.21E-01	4
miR-484	-1.2	2.53E-01	3.23E-01	2367
let-7a-3p	1.3	2.62E-01	3.33E-01	7
miR-106b-3p	-1.1	2.76E-01	3.50E-01	593

miR-106b-5p	-1.2	2.77E-01	3.50E-01	26
miR-9-5p	1.4	2.92E-01	3.69E-01	9
miR-15b-3p	1.2	2.93E-01	3.69E-01	34
miR-503-5p	1.2	3.12E-01	3.92E-01	34
miR-4732-3p	-1.1	3.13E-01	3.92E-01	217
miR-7-1-3p	1.2	3.22E-01	4.01E-01	5
miR-1224-5p	-1.3	3.22E-01	4.01E-01	10
miR-3928-3p	-1.2	3.35E-01	4.15E-01	6
miR-3615	1.1	3.42E-01	4.23E-01	682
miR-142-3p	1.1	3.48E-01	4.30E-01	1526
miR-16-2-3p	1.1	3.51E-01	4.32E-01	30
miR-548l	-1.2	3.53E-01	4.33E-01	9
miR-202-3p	1.4	3.57E-01	4.38E-01	5
miR-4775	-1.1	3.59E-01	4.39E-01	4
miR-3613-5p	-1.1	3.62E-01	4.41E-01	391
miR-4662a-5p	-1.3	3.65E-01	4.43E-01	5
miR-3158-3p	-1.2	3.73E-01	4.52E-01	15
miR-33a-5p	1.2	3.78E-01	4.57E-01	7
miR-136-3p	-1.2	3.90E-01	4.70E-01	10
miR-139-5p	-1.2	4.00E-01	4.81E-01	12
miR-4669	1.4	4.10E-01	4.91E-01	7
miR-330-5p	1.3	4.12E-01	4.93E-01	3
miR-1247-5p	1.2	4.14E-01	4.94E-01	9
miR-3913-5p	1.1	4.19E-01	4.99E-01	10
miR-5001-3p	1.2	4.43E-01	5.26E-01	7
miR-345-5p	1.1	4.48E-01	5.31E-01	25
miR-760	-1.1	4.60E-01	5.42E-01	30
miR-505-5p	-1.1	4.64E-01	5.47E-01	13
miR-548n	-1.2	4.66E-01	5.47E-01	5
miR-4738-3p	1.2	4.71E-01	5.51E-01	5
miR-324-3p	-1.1	4.77E-01	5.57E-01	32
let-7b-5p	1.1	5.01E-01	5.84E-01	31199
miR-6859-5p	1.2	5.06E-01	5.88E-01	4
miR-423-5p	1.1	5.10E-01	5.91E-01	7124
miR-186-5p	-1.1	5.11E-01	5.91E-01	280
miR-874-5p	1.3	5.14E-01	5.93E-01	3
miR-589-5p	-1.1	5.25E-01	6.04E-01	21
miR-1468-5p	-1.1	5.28E-01	6.06E-01	9
miR-101-3p	1.1	5.37E-01	6.15E-01	4635
miR-144-3p	-1.1	5.43E-01	6.18E-01	213
miR-598-3p	-1.1	5.43E-01	6.18E-01	36

miR-3942-5p	1.3	5.59E-01	6.35E-01	3
miR-25-3p	1.1	5.63E-01	6.38E-01	14035
miR-5583-3p	-1.1	5.71E-01	6.46E-01	5
miR-429	1.2	5.79E-01	6.53E-01	5
miR-152-3p	-1.1	5.80E-01	6.53E-01	153
miR-23a-5p	-1.3	5.88E-01	6.60E-01	4
miR-548at-5p	1.2	5.91E-01	6.62E-01	6
miR-3127-5p	-1.1	5.95E-01	6.65E-01	7
miR-21-3p	-1.1	5.97E-01	6.66E-01	10
miR-30e-5p	1.0	6.00E-01	6.67E-01	4305
miR-5010-5p	-1.0	6.44E-01	7.14E-01	8
miR-548ay-5p	1.1	6.46E-01	7.14E-01	14
miR-2110	-1.0	6.62E-01	7.29E-01	55
miR-224-5p	1.1	6.64E-01	7.29E-01	20
miR-26b-3p	-1.1	6.64E-01	7.29E-01	8
miR-375	1.1	6.65E-01	7.29E-01	419
miR-363-3p	1.1	6.67E-01	7.29E-01	480
miR-196b-5p	1.1	6.70E-01	7.31E-01	209
miR-20a-5p	-1.0	6.72E-01	7.31E-01	414
miR-16-5p	1.1	6.88E-01	7.47E-01	317310
miR-23b-5p	-1.1	7.14E-01	7.73E-01	8
miR-3688-3p	1.1	7.38E-01	7.97E-01	12
miR-505-3p	-1.1	7.54E-01	8.12E-01	9
miR-4710	-1.1	7.59E-01	8.14E-01	3
miR-6764-5p	1.1	7.59E-01	8.14E-01	5
miR-629-5p	1.0	7.66E-01	8.20E-01	207
miR-1255b-5p	-1.0	7.69E-01	8.21E-01	44
miR-5196-3p	-1.2	7.74E-01	8.24E-01	5
let-7d-5p	1.0	7.84E-01	8.34E-01	1747
miR-6780a-5p	1.1	7.92E-01	8.36E-01	5
miR-132-5p	-1.0	7.92E-01	8.36E-01	6
miR-550a-3p	-1.0	7.94E-01	8.36E-01	12
miR-218-5p	1.1	7.94E-01	8.36E-01	6
miR-199b-5p	1.1	8.12E-01	8.53E-01	7
miR-1270	1.1	8.16E-01	8.55E-01	17
let-7e-5p	1.0	8.27E-01	8.65E-01	200
miR-769-3p	-1.0	8.38E-01	8.74E-01	6
miR-25-5p	1.0	8.43E-01	8.77E-01	38
miR-3168	1.0	8.44E-01	8.77E-01	32
miR-3200-3p	1.0	8.48E-01	8.77E-01	8
miR-3150a-5p	-1.2	8.49E-01	8.77E-01	3

miR-937-3p	1.1	8.65E-01	8.92E-01	4
miR-6862-5p	-1.0	8.77E-01	9.01E-01	4
miR-146b-3p	-1.0	8.78E-01	9.01E-01	13
miR-181b-5p	-1.0	8.80E-01	9.01E-01	190
miR-509-3p	-1.1	8.89E-01	9.09E-01	4
miR-3613-3p	-1.0	8.95E-01	9.13E-01	5
miR-1287-5p	-1.0	8.98E-01	9.14E-01	16
miR-1307-5p	-1.0	9.15E-01	9.30E-01	20
miR-501-5p	1.0	9.34E-01	9.47E-01	6
miR-548a-3p	1.0	9.39E-01	9.50E-01	5
miR-361-5p	1.0	9.45E-01	9.53E-01	243
miR-203a	1.0	9.57E-01	9.63E-01	249
miR-3605-3p	1.0	9.78E-01	9.82E-01	38
miR-651-5p	1.0	9.86E-01	9.89E-01	13
miR-3120-3p	-1.0	1.00E+00	1.00E+00	4

Table S4. Overlap in differentially altered miRs (p<0.05) between cohorts 1 and 2 in relation to a history of preeclampsia versus normotensive pregnancy. MiRNA levels are expressed as mean counts per million mapped reads (CPM).

4 common miRNAs	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)			
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)
miR-1299	4.9	3.67E-03	1.96E-01	23	4.0	3.63E-03	2.37E-01	10
miR-4662a-5p	3.5	1.33E-02	4.45E-01	5	-2.0	9.21E-03	4.51E-01	4
miR-376a-3p	-4.7	1.10E-03	1.17E-01	7	-1.6	3.50E-02	7.63E-01	8
miR-206	-10.6	1.64E-06	6.98E-04	242	-1.8	2.06E-02	6.21E-01	34
26 miRs unique to cohort 1	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)			
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)
miR-184	10.3	2.35E-04	3.35E-02	52	na	>0.05	na	na
miR-6730-3p	7.3	3.46E-03	1.96E-01	4	na	>0.05	na	na
miR-499a-5p	5.8	1.85E-03	1.58E-01	45	na	>0.05	na	na
miR-218-5p	5.4	2.24E-03	1.60E-01	7	na	>0.05	na	na
miR-3591-5p	3.8	4.01E-02	6.34E-01	5	na	>0.05	na	na
miR-4667-5p	3.6	3.60E-02	5.91E-01	4	na	>0.05	na	na
miR-874-5p	3.3	1.64E-02	4.54E-01	4	na	>0.05	na	na
miR-1	3.0	5.46E-03	2.59E-01	531	na	>0.05	na	na
miR-202-3p	2.9	4.68E-02	6.54E-01	6	na	>0.05	na	na
miR-133a-3p	2.7	2.78E-02	5.16E-01	76	na	>0.05	na	na
miR-6767-5p	2.7	1.95E-02	4.91E-01	7	na	>0.05	na	na
miR-6741-3p	1.7	2.61E-02	5.07E-01	11	na	>0.05	na	na
miR-769-5p	-1.5	4.20E-02	6.40E-01	27	na	>0.05	na	na
miR-30b-5p	-1.8	1.23E-02	4.45E-01	15	na	>0.05	na	na
miR-1277-5p	-1.8	2.35E-02	5.01E-01	13	na	>0.05	na	na
miR-221-5p	-1.9	3.03E-02	5.39E-01	9	na	>0.05	na	na
miR-2355-3p	-1.9	3.54E-02	5.91E-01	7	na	>0.05	na	na
miR-505-3p	-1.9	2.22E-02	5.01E-01	9	na	>0.05	na	na
miR-369-5p	-2.2	2.54E-02	5.07E-01	18	na	>0.05	na	na
miR-493-5p	-2.3	2.29E-02	5.01E-01	13	na	>0.05	na	na
miR-431-5p	-2.4	1.47E-02	4.49E-01	73	na	>0.05	na	na
miR-329-3p	-2.5	4.56E-02	6.54E-01	7	na	>0.05	na	na
miR-136-3p	-2.7	1.35E-02	4.45E-01	10	na	>0.05	na	na
miR-28-5p	-2.7	1.70E-02	4.54E-01	5	na	>0.05	na	na
miR-889-3p	-2.9	7.52E-03	3.21E-01	17	na	>0.05	na	na
miR-1292-5p	-3.6	8.28E-05	1.77E-02	8	na	>0.05	na	na
16 miRs unique to cohort 2	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)			
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)
miR-1224-5p	na	>0.05	na	na	2.1	3.8E-02	7.8E-01	10
miR-877-3p	na	>0.05	na	na	1.6	2.3E-02	6.5E-01	8
miR-22-3p	na	>0.05	na	na	1.3	3.5E-02	7.6E-01	506
miR-30a-5p	na	>0.05	na	na	-1.2	4.9E-02	9.2E-01	491
miR-29a-3p	na	>0.05	na	na	-1.4	2.0E-03	2.4E-01	449
miR-125b-5p	na	>0.05	na	na	-1.5	3.1E-03	2.4E-01	603
miR-99a-5p	na	>0.05	na	na	-1.5	2.2E-03	2.4E-01	126
miR-205-5p	na	>0.05	na	na	-1.6	5.0E-03	2.8E-01	56
miR-204-5p	na	>0.05	na	na	-1.7	2.7E-02	7.0E-01	8
miR-382-3p	na	>0.05	na	na	-1.7	1.5E-02	5.3E-01	15
miR-193b-5p	na	>0.05	na	na	-2.0	1.1E-02	4.8E-01	17
miR-885-5p	na	>0.05	na	na	-2.0	3.0E-02	7.2E-01	8
miR-885-3p	na	>0.05	na	na	-2.3	1.7E-02	5.7E-01	15
miR-203a	na	>0.05	na	na	-2.4	2.7E-03	2.4E-01	251
miR-122-5p	na	>0.05	na	na	-2.6	4.6E-04	1.8E-01	15405
miR-9-5p	na	>0.05	na	na	-2.9	1.4E-02	5.3E-01	8

Table S5. Overlap in differentially altered miRs (p<0.05) identified in cohorts 1, 2 and 3 in relation to a history of PE or NT pregnancy (cohorts 1 and 2) or acute coronary syndrome (cohort 3). MiRNA levels are expressed as mean counts per million mapped reads (CPM).

1 common miR	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				ACS vs non-ACS (cohort 1 vs cohort 2)				
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	
miR-206	-10.6	1.64E-06	6.98E-04	242	-1.8	2.06E-02	6.21E-01	34	6.9	4.15E-10	8.65E-09	127	
3 miR overlap	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				ACS vs non-ACS (cohort 1 vs cohort 2)				
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	
	miR-1299	4.9	3.67E-03	1.96E-01	23.5	4.0	3.63E-03	2.37E-01	10	na	>0.05	na	na
	miR-4662a-5p	3.5	1.33E-02	4.45E-01	5.0	-2.0	9.21E-03	4.51E-01	4	na	>0.05	na	na
miR-376a-3p	-4.7	1.10E-03	1.17E-01	7.0	-1.6	3.50E-02	7.63E-01	8	na	>0.05	na	na	
11 miR overlap	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				ACS vs non-ACS (cohort 1 vs cohort 2)				
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	
	miR-877-3p	na	>0.05	na	na	1.6	2.32E-02	6.50E-01	8	-2.1	5.74E-04	1.79E-03	7
	miR-22-3p	na	>0.05	na	na	1.3	3.47E-02	7.63E-01	506	1.3	2.28E-02	4.15E-02	584
	miR-30a-5p	na	>0.05	na	na	-1.2	4.93E-02	9.18E-01	491	2.3	2.48E-17	2.84E-15	828
	miR-29a-3p	na	>0.05	na	na	-1.4	1.98E-03	2.37E-01	449	2.2	3.12E-23	7.14E-21	726
	miR-125b-5p	na	>0.05	na	na	-1.5	3.07E-03	2.37E-01	603	2.0	3.51E-08	4.12E-07	899
	miR-99a-5p	na	>0.05	na	na	-1.5	2.17E-03	2.37E-01	126	2.4	1.53E-13	5.38E-12	214
	miR-205-5p	na	>0.05	na	na	-1.6	4.95E-03	2.77E-01	56	1.5	6.15E-03	1.27E-02	70
	miR-193b-5p	na	>0.05	na	na	-2.0	1.11E-02	4.84E-01	17	4.3	1.07E-11	2.73E-10	43
	miR-885-5p	na	>0.05	na	na	-2.0	2.95E-02	7.23E-01	8	2.1	5.33E-03	1.13E-02	12
	miR-885-3p	na	>0.05	na	na	-2.3	1.74E-02	5.70E-01	15	4.1	6.85E-07	5.51E-06	34
	miR-122-5p	na	>0.05	na	na	-2.6	4.65E-04	1.82E-01	15405	3.1	6.56E-07	5.42E-06	30457
17 miR overlap	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				ACS vs non-ACS (cohort 1 vs cohort 2)				
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	
	miR-184	10.3	2.35E-04	3.35E-02	52	na	>0.05	na	na	11.7	9.00E-12	2.43E-10	24
	miR-6730-3p	7.3	3.46E-03	1.96E-01	4	na	>0.05	na	na	3.6	5.34E-03	1.13E-02	3
	miR-499a-5p	5.8	1.85E-03	1.58E-01	45	na	>0.05	na	na	34.2	8.30E-17	7.60E-15	19
	miR-3591-5p	3.8	4.01E-02	6.34E-01	5	na	>0.05	na	na	4.0	9.51E-04	2.68E-03	3
	miR-4667-5p	3.6	3.60E-02	5.91E-01	4	na	>0.05	na	na	3.5	3.53E-03	8.16E-03	3
	miR-1	3.0	5.46E-03	2.59E-01	531	na	>0.05	na	na	3.4	1.55E-07	1.58E-06	296
	miR-133a-3p	2.7	2.78E-02	5.16E-01	76	na	>0.05	na	na	2.5	5.46E-04	1.71E-03	47
	miR-6741-3p	1.7	2.61E-02	5.07E-01	11	na	>0.05	na	na	-2.0	3.24E-05	1.61E-04	14
	miR-30b-5p	-1.8	1.23E-02	4.45E-01	15	na	>0.05	na	na	-1.5	3.43E-03	8.02E-03	17
	miR-1277-5p	-1.8	2.35E-02	5.01E-01	13	na	>0.05	na	na	-2.1	3.92E-05	1.87E-04	18
	miR-221-5p	-1.9	3.03E-02	5.39E-01	9	na	>0.05	na	na	-3.4	9.56E-11	2.08E-09	16
	miR-369-5p	-2.2	2.54E-02	5.07E-01	18	na	>0.05	na	na	-2.4	1.20E-04	4.68E-04	28
	miR-493-5p	-2.3	2.29E-02	5.01E-01	13	na	>0.05	na	na	-2.8	1.41E-05	7.61E-05	21
	miR-431-5p	-2.4	1.47E-02	4.49E-01	73	na	>0.05	na	na	-2.2	4.74E-04	1.50E-03	112
	miR-329-3p	-2.5	4.56E-02	6.54E-01	7	na	>0.05	na	na	-2.1	3.32E-03	7.79E-03	8
	miR-28-5p	-2.7	1.70E-02	4.54E-01	5	na	>0.05	na	na	-2.0	3.76E-03	8.56E-03	5
	miR-889-3p	-2.9	7.52E-03	3.21E-01	17	na	>0.05	na	na	-2.9	1.88E-05	9.92E-05	30
5 miRs unique to cohort 2	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				ACS vs non-ACS (cohort 1 vs cohort 2)				
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	
	miR-1224-5p	na	>0.05	na	na	2.1	3.78E-02	7.79E-01	10	na	>0.05	na	na
	miR-204-5p	na	>0.05	na	na	-1.7	2.68E-02	7.02E-01	8	na	>0.05	na	na
	miR-382-3p	na	>0.05	na	na	-1.7	1.49E-02	5.32E-01	15	na	>0.05	na	na
miR-203a	na	>0.05	na	na	-2.4	2.67E-03	2.37E-01	251	na	>0.05	na	na	
miR-9-5p	na	>0.05	na	na	-2.9	1.40E-02	5.32E-01	8	na	>0.05	na	na	

Table S5. Continued.

9 miRs unique to cohort 1	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				ACS vs non-ACS (cohort 1 vs cohort 2)			
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)
miR-218-5p	5.4	2.24E-03	1.60E-01	7	na	>0.05	na	na	na	>0.05	na	na
miR-874-5p	3.3	1.64E-02	4.54E-01	4	na	>0.05	na	na	na	>0.05	na	na
miR-202-3p	2.9	4.68E-02	6.54E-01	6	na	>0.05	na	na	na	>0.05	na	na
miR-6767-5p	2.7	1.95E-02	4.91E-01	7	na	>0.05	na	na	na	>0.05	na	na
miR-769-5p	-1.5	4.20E-02	6.40E-01	27	na	>0.05	na	na	na	>0.05	na	na
miR-2355-3p	-1.9	3.54E-02	5.91E-01	7	na	>0.05	na	na	na	>0.05	na	na
miR-505-3p	-1.9	2.22E-02	5.01E-01	9	na	>0.05	na	na	na	>0.05	na	na
miR-136-3p	-2.7	1.35E-02	4.45E-01	10	na	>0.05	na	na	na	>0.05	na	na
miR-1292-5p	-3.6	8.28E-05	1.77E-02	8	na	>0.05	na	na	na	>0.05	na	na
230 miRs unique to cohort 3	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				ACS vs non-ACS (cohort 1 vs cohort 2)			
Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	
miR-208b-3p	na	>0.05	na	na	na	>0.05	na	na	148.0	1.18E-23	5.39E-21	37
miR-208a-3p	na	>0.05	na	na	na	>0.05	na	na	15.2	7.87E-11	1.80E-09	3
miR-125b-1-3p	na	>0.05	na	na	na	>0.05	na	na	6.3	2.98E-07	2.78E-06	4
miR-122-3p	na	>0.05	na	na	na	>0.05	na	na	4.6	9.81E-06	5.55E-05	4
miR-483-5p	na	>0.05	na	na	na	>0.05	na	na	4.4	7.31E-16	3.35E-14	305
miR-34a-5p	na	>0.05	na	na	na	>0.05	na	na	3.9	1.32E-16	8.64E-15	32
miR-365a-5p	na	>0.05	na	na	na	>0.05	na	na	3.8	9.55E-04	2.68E-03	4
miR-125b-2-3p	na	>0.05	na	na	na	>0.05	na	na	3.6	6.46E-08	7.21E-07	10
miR-4428	na	>0.05	na	na	na	>0.05	na	na	3.6	1.71E-03	4.48E-03	2
miR-6807-5p	na	>0.05	na	na	na	>0.05	na	na	3.4	1.97E-03	4.92E-03	3
miR-31-5p	na	>0.05	na	na	na	>0.05	na	na	3.4	1.41E-03	3.78E-03	6
miR-193a-5p	na	>0.05	na	na	na	>0.05	na	na	3.3	1.08E-16	8.24E-15	181
miR-378c	na	>0.05	na	na	na	>0.05	na	na	2.9	8.02E-10	1.47E-08	9
miR-95-3p	na	>0.05	na	na	na	>0.05	na	na	2.9	1.03E-08	1.52E-07	11
miR-195-5p	na	>0.05	na	na	na	>0.05	na	na	2.8	4.98E-16	2.53E-14	61
miR-365a-3p	na	>0.05	na	na	na	>0.05	na	na	2.8	2.21E-06	1.58E-05	9
miR-3065-5p	na	>0.05	na	na	na	>0.05	na	na	2.7	6.32E-05	2.79E-04	6
miR-3934-5p	na	>0.05	na	na	na	>0.05	na	na	2.7	2.54E-02	4.55E-02	3
miR-676-3p	na	>0.05	na	na	na	>0.05	na	na	2.7	1.79E-03	4.58E-03	3
miR-215-5p	na	>0.05	na	na	na	>0.05	na	na	2.6	8.41E-06	4.94E-05	54
miR-194-5p	na	>0.05	na	na	na	>0.05	na	na	2.5	7.64E-12	2.19E-10	298
miR-10b-5p	na	>0.05	na	na	na	>0.05	na	na	2.5	4.51E-16	2.53E-14	897
miR-211-5p	na	>0.05	na	na	na	>0.05	na	na	2.5	2.94E-04	1.01E-03	5
miR-10b-3p	na	>0.05	na	na	na	>0.05	na	na	2.5	4.63E-05	2.10E-04	6
miR-4429	na	>0.05	na	na	na	>0.05	na	na	2.5	8.75E-05	3.65E-04	5
miR-10a-3p	na	>0.05	na	na	na	>0.05	na	na	2.4	3.63E-04	1.20E-03	6
miR-378a-3p	na	>0.05	na	na	na	>0.05	na	na	2.4	3.39E-18	5.18E-16	303
miR-320c	na	>0.05	na	na	na	>0.05	na	na	2.3	1.01E-13	4.20E-12	84
miR-365b-3p	na	>0.05	na	na	na	>0.05	na	na	2.3	2.55E-04	8.97E-04	8
miR-100-5p	na	>0.05	na	na	na	>0.05	na	na	2.3	5.54E-07	4.79E-06	132
miR-320d	na	>0.05	na	na	na	>0.05	na	na	2.3	1.39E-13	5.30E-12	45
miR-196a-5p	na	>0.05	na	na	na	>0.05	na	na	2.3	6.81E-04	2.04E-03	11
miR-497-5p	na	>0.05	na	na	na	>0.05	na	na	2.2	1.17E-03	3.22E-03	5
miR-378i	na	>0.05	na	na	na	>0.05	na	na	2.2	6.30E-06	3.90E-05	7
miR-141-3p	na	>0.05	na	na	na	>0.05	na	na	2.2	1.27E-04	4.95E-04	37
miR-200b-3p	na	>0.05	na	na	na	>0.05	na	na	2.2	5.79E-04	1.79E-03	23
miR-320b	na	>0.05	na	na	na	>0.05	na	na	2.1	4.78E-12	1.56E-10	103
miR-214-3p	na	>0.05	na	na	na	>0.05	na	na	2.1	4.34E-03	9.59E-03	5
miR-483-3p	na	>0.05	na	na	na	>0.05	na	na	2.1	1.04E-04	4.16E-04	177
miR-27a-5p	na	>0.05	na	na	na	>0.05	na	na	2.0	1.04E-02	2.04E-02	4
miR-452-5p	na	>0.05	na	na	na	>0.05	na	na	2.0	3.66E-03	8.38E-03	8
miR-1246	na	>0.05	na	na	na	>0.05	na	na	2.0	2.84E-06	1.88E-05	25
miR-4714-3p	na	>0.05	na	na	na	>0.05	na	na	1.9	2.61E-02	4.66E-02	4
miR-143-5p	na	>0.05	na	na	na	>0.05	na	na	1.9	9.84E-04	2.75E-03	11
miR-874-3p	na	>0.05	na	na	na	>0.05	na	na	1.9	5.28E-07	4.65E-06	23

Table S5. Continued

miR-200a-3p	na	>0.05	na	na	na	>0.05	na	na	1.9	2.77E-03	6.60E-03	25
miR-424-5p	na	>0.05	na	na	na	>0.05	na	na	1.8	9.05E-04	2.57E-03	9
miR-210-3p	na	>0.05	na	na	na	>0.05	na	na	1.8	1.09E-03	2.99E-03	16
miR-29c-3p	na	>0.05	na	na	na	>0.05	na	na	1.8	2.87E-11	6.91E-10	896
miR-130b-3p	na	>0.05	na	na	na	>0.05	na	na	1.8	1.51E-06	1.16E-05	34
miR-150-3p	na	>0.05	na	na	na	>0.05	na	na	1.7	1.98E-03	4.92E-03	16
miR-32-5p	na	>0.05	na	na	na	>0.05	na	na	1.7	3.35E-04	1.13E-03	402
miR-192-5p	na	>0.05	na	na	na	>0.05	na	na	1.7	3.75E-06	2.38E-05	730
miR-30a-3p	na	>0.05	na	na	na	>0.05	na	na	1.7	1.28E-05	6.98E-05	43
miR-378a-5p	na	>0.05	na	na	na	>0.05	na	na	1.6	9.94E-03	1.98E-02	10
miR-500a-3p	na	>0.05	na	na	na	>0.05	na	na	1.6	3.95E-05	1.87E-04	30
miR-143-3p	na	>0.05	na	na	na	>0.05	na	na	1.6	1.07E-03	2.97E-03	1159
miR-23b-3p	na	>0.05	na	na	na	>0.05	na	na	1.5	1.78E-07	1.76E-06	116
miR-27b-3p	na	>0.05	na	na	na	>0.05	na	na	1.5	3.20E-05	1.61E-04	588
miR-10a-5p	na	>0.05	na	na	na	>0.05	na	na	1.5	9.16E-06	5.31E-05	752
miR-150-5p	na	>0.05	na	na	na	>0.05	na	na	1.5	1.40E-02	2.69E-02	2090
miR-107	na	>0.05	na	na	na	>0.05	na	na	1.5	6.52E-04	1.97E-03	328
miR-96-5p	na	>0.05	na	na	na	>0.05	na	na	1.5	1.49E-02	2.83E-02	113
miR-148a-3p	na	>0.05	na	na	na	>0.05	na	na	1.5	5.72E-07	4.85E-06	3030
miR-542-3p	na	>0.05	na	na	na	>0.05	na	na	1.5	1.25E-02	2.42E-02	16
miR-4732-5p	na	>0.05	na	na	na	>0.05	na	na	1.4	4.07E-03	9.09E-03	207
miR-27a-3p	na	>0.05	na	na	na	>0.05	na	na	1.4	7.43E-07	5.87E-06	160
miR-200c-3p	na	>0.05	na	na	na	>0.05	na	na	1.4	2.67E-02	4.73E-02	73
miR-140-3p	na	>0.05	na	na	na	>0.05	na	na	1.4	1.73E-03	4.48E-03	781
miR-21-5p	na	>0.05	na	na	na	>0.05	na	na	1.4	2.26E-06	1.59E-05	18833
miR-15a-5p	na	>0.05	na	na	na	>0.05	na	na	1.4	7.80E-03	1.57E-02	489
miR-320a	na	>0.05	na	na	na	>0.05	na	na	1.4	7.83E-05	3.32E-04	1741
miR-19b-3p	na	>0.05	na	na	na	>0.05	na	na	1.4	2.19E-03	5.39E-03	467
miR-502-3p	na	>0.05	na	na	na	>0.05	na	na	1.4	6.93E-03	1.41E-02	37
miR-15b-5p	na	>0.05	na	na	na	>0.05	na	na	1.4	6.13E-03	1.27E-02	556
miR-185-5p	na	>0.05	na	na	na	>0.05	na	na	1.4	5.54E-03	1.16E-02	2589
miR-501-3p	na	>0.05	na	na	na	>0.05	na	na	1.3	4.04E-03	9.09E-03	168
miR-532-5p	na	>0.05	na	na	na	>0.05	na	na	1.3	5.03E-03	1.09E-02	245
let-7c-5p	na	>0.05	na	na	na	>0.05	na	na	1.2	2.50E-02	4.51E-02	654
miR-660-5p	na	>0.05	na	na	na	>0.05	na	na	1.2	1.64E-02	3.08E-02	407
miR-142-5p	na	>0.05	na	na	na	>0.05	na	na	1.2	2.26E-02	4.15E-02	2247
miR-92a-3p	na	>0.05	na	na	na	>0.05	na	na	-1.3	1.50E-02	2.83E-02	140957
miR-148b-3p	na	>0.05	na	na	na	>0.05	na	na	-1.3	5.08E-03	1.09E-02	871
let-7d-3p	na	>0.05	na	na	na	>0.05	na	na	-1.3	9.53E-03	1.91E-02	314
miR-126-5p	na	>0.05	na	na	na	>0.05	na	na	-1.3	4.35E-03	9.59E-03	3778
miR-128-3p	na	>0.05	na	na	na	>0.05	na	na	-1.3	7.01E-04	2.07E-03	364
miR-342-3p	na	>0.05	na	na	na	>0.05	na	na	-1.3	2.39E-02	4.34E-02	3780
miR-155-5p	na	>0.05	na	na	na	>0.05	na	na	-1.3	1.45E-03	3.83E-03	414
miR-339-3p	na	>0.05	na	na	na	>0.05	na	na	-1.3	1.01E-02	1.99E-02	42
miR-26a-5p	na	>0.05	na	na	na	>0.05	na	na	-1.3	6.34E-05	2.79E-04	5364
let-7f-5p	na	>0.05	na	na	na	>0.05	na	na	-1.3	8.27E-04	2.38E-03	17925
miR-92b-3p	na	>0.05	na	na	na	>0.05	na	na	-1.4	2.66E-03	6.42E-03	564
miR-941	na	>0.05	na	na	na	>0.05	na	na	-1.4	1.16E-02	2.26E-02	159
miR-425-5p	na	>0.05	na	na	na	>0.05	na	na	-1.4	1.40E-03	3.77E-03	4999
miR-181a-2-3p	na	>0.05	na	na	na	>0.05	na	na	-1.4	1.25E-02	2.42E-02	44
miR-671-5p	na	>0.05	na	na	na	>0.05	na	na	-1.4	1.91E-02	3.52E-02	64

Table S5. Continued

miR-223-5p	na	>0.05	na	na	na	>0.05	na	na	-1.4	6.22E-03	1.27E-02	400
miR-191-5p	na	>0.05	na	na	na	>0.05	na	na	-1.4	7.54E-04	2.20E-03	3983
miR-18a-5p	na	>0.05	na	na	na	>0.05	na	na	-1.4	9.97E-03	1.98E-02	30
miR-425-3p	na	>0.05	na	na	na	>0.05	na	na	-1.4	8.07E-04	2.34E-03	87
miR-340-5p	na	>0.05	na	na	na	>0.05	na	na	-1.4	5.23E-03	1.12E-02	201
miR-221-3p	na	>0.05	na	na	na	>0.05	na	na	-1.4	1.73E-03	4.48E-03	1500
let-7i-5p	na	>0.05	na	na	na	>0.05	na	na	-1.4	2.29E-08	2.92E-07	21242
let-7g-5p	na	>0.05	na	na	na	>0.05	na	na	-1.4	3.42E-04	1.13E-03	1689
miR-146a-5p	na	>0.05	na	na	na	>0.05	na	na	-1.4	7.60E-03	1.54E-02	5306
miR-18a-3p	na	>0.05	na	na	na	>0.05	na	na	-1.4	5.54E-03	1.16E-02	45
miR-6511a-3p	na	>0.05	na	na	na	>0.05	na	na	-1.5	2.54E-02	4.55E-02	9
miR-374a-3p	na	>0.05	na	na	na	>0.05	na	na	-1.5	1.64E-02	3.08E-02	13
miR-185-3p	na	>0.05	na	na	na	>0.05	na	na	-1.5	2.13E-04	7.63E-04	79
miR-181a-3p	na	>0.05	na	na	na	>0.05	na	na	-1.5	1.88E-02	3.47E-02	30
miR-17-5p	na	>0.05	na	na	na	>0.05	na	na	-1.5	2.76E-04	9.66E-04	142
miR-148b-5p	na	>0.05	na	na	na	>0.05	na	na	-1.5	7.69E-03	1.55E-02	15
miR-126-3p	na	>0.05	na	na	na	>0.05	na	na	-1.5	3.63E-05	1.79E-04	12027
miR-26b-5p	na	>0.05	na	na	na	>0.05	na	na	-1.5	7.87E-08	8.58E-07	4744
miR-296-5p	na	>0.05	na	na	na	>0.05	na	na	-1.5	4.57E-03	9.97E-03	27
miR-1343-3p	na	>0.05	na	na	na	>0.05	na	na	-1.5	1.45E-02	2.77E-02	9
miR-301a-3p	na	>0.05	na	na	na	>0.05	na	na	-1.6	2.29E-03	5.58E-03	20
miR-92b-5p	na	>0.05	na	na	na	>0.05	na	na	-1.6	8.77E-05	3.65E-04	41
miR-199a-3p	na	>0.05	na	na	na	>0.05	na	na	-1.6	1.90E-03	4.81E-03	1964
miR-139-3p	na	>0.05	na	na	na	>0.05	na	na	-1.6	2.71E-03	6.50E-03	214
miR-6805-5p	na	>0.05	na	na	na	>0.05	na	na	-1.6	1.88E-02	3.47E-02	7
miR-324-5p	na	>0.05	na	na	na	>0.05	na	na	-1.6	3.40E-04	1.13E-03	108
miR-199b-3p	na	>0.05	na	na	na	>0.05	na	na	-1.6	1.34E-03	3.63E-03	1572
miR-628-3p	na	>0.05	na	na	na	>0.05	na	na	-1.6	1.95E-04	7.03E-04	76
miR-98-5p	na	>0.05	na	na	na	>0.05	na	na	-1.6	2.16E-08	2.82E-07	174
miR-28-3p	na	>0.05	na	na	na	>0.05	na	na	-1.6	4.20E-04	1.36E-03	454
miR-151a-5p	na	>0.05	na	na	na	>0.05	na	na	-1.6	4.47E-04	1.43E-03	24
miR-374b-5p	na	>0.05	na	na	na	>0.05	na	na	-1.6	6.74E-05	2.91E-04	28
miR-3200-5p	na	>0.05	na	na	na	>0.05	na	na	-1.6	2.44E-02	4.41E-02	6
miR-4742-3p	na	>0.05	na	na	na	>0.05	na	na	-1.6	6.98E-04	2.07E-03	14
miR-191-3p	na	>0.05	na	na	na	>0.05	na	na	-1.7	4.47E-03	9.80E-03	16
miR-652-3p	na	>0.05	na	na	na	>0.05	na	na	-1.7	6.26E-06	3.90E-05	45
miR-30d-5p	na	>0.05	na	na	na	>0.05	na	na	-1.7	1.93E-07	1.84E-06	16794
miR-151a-3p	na	>0.05	na	na	na	>0.05	na	na	-1.7	2.18E-05	1.14E-04	2627
miR-590-3p	na	>0.05	na	na	na	>0.05	na	na	-1.7	1.09E-04	4.32E-04	17
miR-190a-5p	na	>0.05	na	na	na	>0.05	na	na	-1.7	1.66E-03	4.36E-03	128
miR-103a-3p	na	>0.05	na	na	na	>0.05	na	na	-1.7	1.95E-08	2.63E-07	5337
miR-182-5p	na	>0.05	na	na	na	>0.05	na	na	-1.7	1.02E-04	4.12E-04	1298
miR-342-5p	na	>0.05	na	na	na	>0.05	na	na	-1.7	6.13E-03	1.27E-02	5
miR-223-3p	na	>0.05	na	na	na	>0.05	na	na	-1.8	1.37E-04	5.25E-04	8005
miR-1538	na	>0.05	na	na	na	>0.05	na	na	-1.8	1.67E-02	3.13E-02	6
miR-1226-3p	na	>0.05	na	na	na	>0.05	na	na	-1.8	7.12E-04	2.09E-03	12
miR-3940-3p	na	>0.05	na	na	na	>0.05	na	na	-1.8	3.14E-03	7.41E-03	8
miR-374a-5p	na	>0.05	na	na	na	>0.05	na	na	-1.8	1.81E-07	1.76E-06	118
miR-181c-5p	na	>0.05	na	na	na	>0.05	na	na	-1.8	6.18E-04	1.89E-03	11
miR-6881-3p	na	>0.05	na	na	na	>0.05	na	na	-1.8	5.31E-03	1.13E-02	6
miR-369-3p	na	>0.05	na	na	na	>0.05	na	na	-1.8	6.20E-03	1.27E-02	25

Table S5. Continued

miR-134-5p	na	>0.05	na	na	na	>0.05	na	na	-1.8	4.06E-03	9.09E-03	206
miR-1260a	na	>0.05	na	na	na	>0.05	na	na	-1.8	3.46E-03	8.05E-03	10
miR-4665-5p	na	>0.05	na	na	na	>0.05	na	na	-1.8	1.40E-02	2.69E-02	5
miR-454-3p	na	>0.05	na	na	na	>0.05	na	na	-1.8	2.69E-05	1.37E-04	126
miR-4685-3p	na	>0.05	na	na	na	>0.05	na	na	-1.8	2.37E-04	8.42E-04	9
miR-6515-3p	na	>0.05	na	na	na	>0.05	na	na	-1.9	3.60E-03	8.29E-03	5
miR-130b-5p	na	>0.05	na	na	na	>0.05	na	na	-1.9	4.49E-04	1.43E-03	14
miR-1908-5p	na	>0.05	na	na	na	>0.05	na	na	-1.9	2.87E-06	1.88E-05	67
miR-127-5p	na	>0.05	na	na	na	>0.05	na	na	-1.9	2.68E-02	4.74E-02	5
miR-30e-3p	na	>0.05	na	na	na	>0.05	na	na	-1.9	1.67E-08	2.32E-07	158
miR-1306-5p	na	>0.05	na	na	na	>0.05	na	na	-1.9	7.19E-12	2.19E-10	369
miR-181d-5p	na	>0.05	na	na	na	>0.05	na	na	-1.9	3.05E-04	1.03E-03	19
miR-628-5p	na	>0.05	na	na	na	>0.05	na	na	-1.9	1.95E-03	4.90E-03	17
miR-1307-3p	na	>0.05	na	na	na	>0.05	na	na	-1.9	3.30E-07	3.03E-06	1047
miR-491-5p	na	>0.05	na	na	na	>0.05	na	na	-2.0	6.21E-04	1.89E-03	15
miR-6803-3p	na	>0.05	na	na	na	>0.05	na	na	-2.0	8.60E-08	9.16E-07	21
miR-5189-5p	na	>0.05	na	na	na	>0.05	na	na	-2.0	1.06E-02	2.07E-02	4
miR-323b-3p	na	>0.05	na	na	na	>0.05	na	na	-2.0	2.42E-03	5.86E-03	44
miR-625-3p	na	>0.05	na	na	na	>0.05	na	na	-2.0	4.48E-05	2.05E-04	471
miR-5187-5p	na	>0.05	na	na	na	>0.05	na	na	-2.0	3.83E-04	1.25E-03	9
miR-99b-5p	na	>0.05	na	na	na	>0.05	na	na	-2.0	6.63E-07	5.42E-06	437
miR-1304-3p	na	>0.05	na	na	na	>0.05	na	na	-2.0	6.68E-05	2.91E-04	19
miR-26a-1-3p	na	>0.05	na	na	na	>0.05	na	na	-2.1	1.45E-03	3.83E-03	7
miR-370-3p	na	>0.05	na	na	na	>0.05	na	na	-2.1	1.83E-03	4.66E-03	47
miR-664a-3p	na	>0.05	na	na	na	>0.05	na	na	-2.1	1.02E-04	4.12E-04	12
miR-744-5p	na	>0.05	na	na	na	>0.05	na	na	-2.1	1.43E-07	1.49E-06	384
miR-1179	na	>0.05	na	na	na	>0.05	na	na	-2.1	1.54E-04	5.78E-04	6
miR-331-3p	na	>0.05	na	na	na	>0.05	na	na	-2.1	4.28E-05	1.98E-04	12
miR-382-5p	na	>0.05	na	na	na	>0.05	na	na	-2.1	2.81E-04	9.74E-04	402
miR-197-3p	na	>0.05	na	na	na	>0.05	na	na	-2.1	2.60E-08	3.21E-07	375
miR-493-3p	na	>0.05	na	na	na	>0.05	na	na	-2.1	2.27E-03	5.56E-03	12
miR-199a-5p	na	>0.05	na	na	na	>0.05	na	na	-2.1	2.98E-04	1.02E-03	25
miR-423-3p	na	>0.05	na	na	na	>0.05	na	na	-2.1	1.84E-09	3.24E-08	858
miR-3138	na	>0.05	na	na	na	>0.05	na	na	-2.1	1.70E-04	6.30E-04	10
miR-6852-5p	na	>0.05	na	na	na	>0.05	na	na	-2.2	1.46E-04	5.53E-04	33
miR-1249	na	>0.05	na	na	na	>0.05	na	na	-2.2	5.69E-05	2.56E-04	17
miR-409-5p	na	>0.05	na	na	na	>0.05	na	na	-2.2	3.95E-03	8.95E-03	6
miR-584-5p	na	>0.05	na	na	na	>0.05	na	na	-2.2	2.23E-09	3.64E-08	1129
miR-548j-5p	na	>0.05	na	na	na	>0.05	na	na	-2.2	8.20E-06	4.94E-05	46
miR-323a-3p	na	>0.05	na	na	na	>0.05	na	na	-2.2	1.36E-04	5.24E-04	31
miR-1260b	na	>0.05	na	na	na	>0.05	na	na	-2.2	1.85E-04	6.78E-04	13
miR-6747-3p	na	>0.05	na	na	na	>0.05	na	na	-2.2	8.31E-06	4.94E-05	8
miR-181c-3p	na	>0.05	na	na	na	>0.05	na	na	-2.2	6.24E-04	1.89E-03	9
miR-330-3p	na	>0.05	na	na	na	>0.05	na	na	-2.2	2.97E-03	7.05E-03	8
miR-328-3p	na	>0.05	na	na	na	>0.05	na	na	-2.3	4.61E-09	7.28E-08	1034
miR-6842-3p	na	>0.05	na	na	na	>0.05	na	na	-2.3	3.32E-06	2.14E-05	9
miR-381-3p	na	>0.05	na	na	na	>0.05	na	na	-2.3	1.90E-04	6.91E-04	54
miR-671-3p	na	>0.05	na	na	na	>0.05	na	na	-2.3	3.97E-05	1.87E-04	24
miR-379-5p	na	>0.05	na	na	na	>0.05	na	na	-2.4	3.82E-05	1.86E-04	85
miR-339-5p	na	>0.05	na	na	na	>0.05	na	na	-2.4	5.74E-08	6.58E-07	191
miR-487b-5p	na	>0.05	na	na	na	>0.05	na	na	-2.4	1.24E-03	3.39E-03	5

Table S5. Continued

miR-1296-5p	na	>0.05	na	na	na	>0.05	na	na	-2.4	9.09E-05	3.75E-04	8
miR-411-5p	na	>0.05	na	na	na	>0.05	na	na	-2.4	1.59E-04	5.93E-04	20
miR-654-3p	na	>0.05	na	na	na	>0.05	na	na	-2.4	7.06E-05	3.02E-04	68
miR-432-5p	na	>0.05	na	na	na	>0.05	na	na	-2.5	2.60E-05	1.34E-04	736
miR-433-3p	na	>0.05	na	na	na	>0.05	na	na	-2.5	4.28E-03	9.51E-03	4
miR-4750-5p	na	>0.05	na	na	na	>0.05	na	na	-2.5	1.75E-03	4.50E-03	4
miR-7110-3p	na	>0.05	na	na	na	>0.05	na	na	-2.6	2.13E-03	5.27E-03	4
miR-1229-3p	na	>0.05	na	na	na	>0.05	na	na	-2.6	1.43E-06	1.11E-05	10
miR-326	na	>0.05	na	na	na	>0.05	na	na	-2.6	9.37E-06	5.36E-05	39
miR-4533	na	>0.05	na	na	na	>0.05	na	na	-2.6	4.74E-03	1.03E-02	4
miR-335-3p	na	>0.05	na	na	na	>0.05	na	na	-2.6	4.06E-07	3.65E-06	24
miR-766-3p	na	>0.05	na	na	na	>0.05	na	na	-2.6	4.47E-04	1.43E-03	10
miR-1273h-3p	na	>0.05	na	na	na	>0.05	na	na	-2.7	1.64E-06	1.23E-05	15
miR-4433-5p	na	>0.05	na	na	na	>0.05	na	na	-2.8	1.20E-05	6.69E-05	6
miR-485-5p	na	>0.05	na	na	na	>0.05	na	na	-2.8	2.56E-06	1.75E-05	73
miR-1301-3p	na	>0.05	na	na	na	>0.05	na	na	-2.8	2.86E-08	3.45E-07	46
miR-556-3p	na	>0.05	na	na	na	>0.05	na	na	-2.8	8.84E-04	2.53E-03	4
miR-6721-5p	na	>0.05	na	na	na	>0.05	na	na	-2.8	1.69E-05	8.99E-05	11
miR-409-3p	na	>0.05	na	na	na	>0.05	na	na	-2.8	2.21E-06	1.58E-05	654
miR-4446-3p	na	>0.05	na	na	na	>0.05	na	na	-2.8	6.57E-06	4.01E-05	21
miR-4646-3p	na	>0.05	na	na	na	>0.05	na	na	-3.0	5.76E-09	8.79E-08	6
miR-543	na	>0.05	na	na	na	>0.05	na	na	-3.1	2.65E-06	1.79E-05	6
miR-485-3p	na	>0.05	na	na	na	>0.05	na	na	-3.1	1.72E-06	1.27E-05	136
miR-5193	na	>0.05	na	na	na	>0.05	na	na	-3.3	1.21E-05	6.70E-05	5
miR-5010-3p	na	>0.05	na	na	na	>0.05	na	na	-3.3	2.07E-09	3.52E-08	8
miR-4433b-3p	na	>0.05	na	na	na	>0.05	na	na	-3.7	1.02E-04	4.12E-04	34
miR-4433b-5p	na	>0.05	na	na	na	>0.05	na	na	-4.0	7.04E-10	1.38E-08	2369
miR-6772-3p	na	>0.05	na	na	na	>0.05	na	na	-4.1	7.21E-10	1.38E-08	7
miR-127-3p	na	>0.05	na	na	na	>0.05	na	na	-4.1	1.45E-08	2.07E-07	19
miR-5698	na	>0.05	na	na	na	>0.05	na	na	-4.2	4.21E-05	1.97E-04	5
miR-3620-3p	na	>0.05	na	na	na	>0.05	na	na	-4.4	2.45E-06	1.70E-05	4
miR-4513	na	>0.05	na	na	na	>0.05	na	na	-5.6	1.85E-02	3.44E-02	4

Table S6. 104 circulating miRNAs previously identified via high-throughput screening to be differentially altered in plasma, serum or whole blood of women with preeclampsia versus normotensive pregnancy. Data is adapted from a systematic review by Sheikh et al. [4].

MicroRNA ID		Number of Citations	References
Source Nomenclature	Updated Nomenclature		
519d	miR-519d-3p	3	Li et al., 2013[9], Yang et al., 2011[10], Yang et al., 2015[11]
517c	miR-517c-3p	3	Li et al., 2013, Yang et al., 2011, Yang et al., 2015
29a	miR-29a-3p	3	Li et al., 2013, Yang et al., 2011, Yang et al., 2015
144	miR-144-3p	3	Li et al., 2013, Ura et al., 2014[12], Wu et al., 2012[13]
130a	miR-130a-3p	3	Li et al., 2013, Wu et al., 2012, Yang et al., 2015
18a	miR-18a-5p	2	Li et al., 2013, Yang et al., 2015
125b	miR-125b-5p	2	Li et al., 2013, Yang et al., 2011
27a	miR-27a-3p	2	Li et al., 2013, Yang et al., 2015
24	miR-24-3p	2	Li et al., 2013, Wu et al., 2012
518b	miR-518b	2	Li et al., 2013, Ura et al., 2014
25	miR-25-3p	2	Li et al., 2013, Ura et al., 2014
223	miR-223-3p	2	Li et al., 2013, Yang et al., 2011
185	miR-185-5p	2	Li et al., 2013, Yang et al., 2011
126	miR-126-3p	2	Ura et al., 2014, Yang et al., 2015
518e	miR-518e-3p	2	Yang et al., 2011, Yang et al., 2015
19a	miR-19a-3p	1	Li et al., 2013
101	miR-101-3p	1	Li et al., 2013
26b	miR-26b-5p	1	Li et al., 2013
378	miR-378a-3p	1	Li et al., 2013
144*	miR-144-5p	1	Li et al., 2013
182	miR-182-5p	1	Li et al., 2013
29c	miR-29c-3p	1	Li et al., 2013
518c	miR-518c-3p	1	Li et al., 2013
515-3p	miR-515-3p	1	Li et al., 2013
424	miR-424-5p	1	Li et al., 2013
29b	miR-29b-3p	1	Li et al., 2013
21	miR-21-5p	1	Li et al., 2013
19b	miR-19b-3p	1	Li et al., 2013
451	miR-451a	1	Li et al., 2013
210	miR-210-3p	1	Ura et al., 2014
32	miR-32-5p	1	Ura et al., 2014
204	miR-204-5p	1	Ura et al., 2014
296-5p	miR-296-5p	1	Ura et al., 2014

152	miR-152-3p	1	Ura et al., 2014
335	miR-335-5p	1	Ura et al., 2014
26a	miR-26a-5p	1	Wu et al., 2012
151-3p	miR-151-3p	1	Wu et al., 2012
181a	miR-181a-5p	1	Wu et al., 2012
30d	miR-30d-5p	1	Wu et al., 2012
342-3p	miR-342-3p	1	Wu et al., 2012
16	miR-16-5p	1	Wu et al., 2012
520g	miR-520g-3p	1	Yang et al., 2011
542-3p	miR-542-3p	1	Yang et al., 2011
135b	miR-135b-5p	1	Yang et al., 2015
149	miR-149-5p	1	Yang et al., 2015
188-5p	miR-188-5p	1	Yang et al., 2015
18b	miR-18b-5p	1	Yang et al., 2015
203	miR-203-3p	1	Yang et al., 2015
205	miR-205-5p	1	Yang et al., 2015
224	miR-224-5p	1	Yang et al., 2015
301a	miR-301a-3p	1	Yang et al., 2015
518a-3p	miR-518a-3p	1	Yang et al., 2015
126*	miR-126-5p	1	Yang et al., 2015
142-3p	miR-142-3p	1	Yang et al., 2015
93	miR-93-5p	1	Yang et al., 2015
34a	miR-34a-5p	1	Li et al., 2013
517b	miR-517b-3p	2	Li et al., 2013, Yang et al., 2011
221	miR-221-3p	2	Li et al., 2013, Wu et al., 2012
521	miR-521	2	Li et al., 2013, Yang et al., 2011
519a	miR-519a-3p	2	Li et al., 2013, Yang et al., 2011
520h	miR-520h	2	Li et al., 2013, Yang et al., 2011
125a-5p	miR-125a-5p	2	Li et al., 2013, Yang et al., 2011
145	miR-145-5p	2	Li et al., 2013, Wu et al., 2012
15b	miR-15b-5p	2	Li et al., 2013, Ura et al., 2014
320c	miR-320c	2	Li et al., 2013, Yang et al., 2011
let-7f	let-7f-5p	2	Li et al., 2013, Yang et al., 2011
23a*	miR-23a-5p	1	Akehrst et al., 2015 [14]
196b-5p	miR-196b-5p	1	Akehrst et al., 2015
206-5p	miR-206-5p	1	Akehrst et al., 2015
502-5p	miR-502-5p	1	Akehrst et al., 2015
503-5p	miR-503-5p	1	Akehrst et al., 2015
758-3p	miR-758-3p	1	Akehrst et al., 2015
10a	miR-10a-5p	1	Li et al., 2013
114	miR-114	1	Li et al., 2013

15b*	miR-15b-3p	1	Li et al., 2013
30a	miR-30a-5p	1	Li et al., 2013
519e	miR-519e-3p	1	Li et al., 2013
299a-5p	miR-299a-5p	1	Li et al., 2013
23a	miR-23a-3p	1	Li et al., 2013
23b	miR-23b-3p	1	Li et al., 2013
525-3p	miR-525-3p	1	Li et al., 2013
199a-5p	miR-199a-5p	1	Li et al., 2013
100	miR-100-5p	1	Li et al., 2013
99a	miR-99a-5p	1	Li et al., 2013
512-5p	miR-512-5p	1	Li et al., 2013
30b	miR-30b-5p	1	Li et al., 2013
107	miR-107	1	Li et al., 2013
1233	miR-1233-3p	1	Ura et al., 2014
650	miR-650	1	Ura et al., 2014
520a	miR-520a-3p	1	Ura et al., 2014
215	miR-215-5p	1	Ura et al., 2014
193a-3p	miR-193a-3p	1	Ura et al., 2014
668	miR-668-3p	1	Ura et al., 2014
376a	miR-376a-3p	1	Ura et al., 2014
574-5p	miR-574-5p	1	Wu et al., 2012
130b	miR-130b-3p	1	Wu et al., 2012
103	miR-103a-3p	1	Wu et al., 2012
425	miR-425-5p	1	Wu et al., 2012
136	miR-136-5p	1	Yang et al., 2011
let-7f-1-star	let-7f-1-3p	1	Yang et al., 2011
let-7a-star	let-7a-3p	1	Yang et al., 2011
1260	miR-1260a	1	Yang et al., 2011
let-7d	let-7d-5p	1	Yang et al., 2011
1272	miR-1272	1	Yang et al., 2011

Table S7. Overlap in differentially altered miRs (p<0.05) identified in cohorts 1, 2 and 4 in relation to a history of PE or NT pregnancy (cohort 1 and 2) or current PE versus NT. Only the direction of change in miRNA level is shown for previously published data. Up/Down denotes conflicting information on direction.

2 common miRs	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				current PE vs NT pregnancy (cohort 4; published literature)					
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Li et al 2013	Yang et al 2011	Wu et al. 2012	Yang et al 2015	Ura et al. 2014	Akehurst et al., 2015
miR-206	-10.6	1.64E-06	6.98E-04	242	-1.8	2.06E-02	6.21E-01	25						Up
miR-376a-3p	-4.7	1.10E-03	1.17E-01	7	-1.6	3.50E-02	7.63E-01	23					Down	
6 miRs common to cohort 2 and 4	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				current PE vs NT pregnancy (cohort 4; published literature)					
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Li et al 2013	Yang et al 2011	Wu et al. 2012	Yang et al 2015	Ura et al. 2014	Akehurst et al., 2015
miR-30a-5p	na	>0.05	na	na	-1.2	4.93E-02	9.18E-01	491	Up					
miR-29a-3p	na	>0.05	na	na	-1.4	1.98E-03	2.37E-01	449	Up	Up		Up		
miR-125b-5p	na	>0.05	na	na	-1.5	3.07E-03	2.37E-01	603	Up	Up				
miR-99a-5p	na	>0.05	na	na	-1.5	2.17E-03	2.37E-01	126	Up					
miR-205-5p	na	>0.05	na	na	-1.6	4.95E-03	2.77E-01	56				Up		
miR-204-5p	na	>0.05	na	na	-1.7	2.68E-02	7.02E-01	8					Up	
1 miR common to cohort 1 and 4	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				current PE vs NT pregnancy (cohort 4; published literature)					
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Li et al 2013	Yang et al 2011	Wu et al. 2012	Yang et al 2015	Ura et al. 2014	Akehurst et al., 2015
miR-30b-5p	-1.8	1.23E-02	4.45E-01	14.88265	na	>0.05	na	na	Up					
2 common miRs	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				current PE vs NT pregnancy (cohort 4; published literature)					
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Li et al 2013	Yang et al 2011	Wu et al. 2012	Yang et al 2015	Ura et al. 2014	Akehurst et al., 2015
miR-1299	4.9	3.67E-03	1.96E-01	23	4.0	3.63E-03	2.37E-01	10	na	na	na	na	na	na
miR-4662a-5p	3.5	1.33E-02	4.45E-01	5	-2.0	9.21E-03	4.51E-01	4	na	na	na	na	na	na
10 miRs unique to cohort 2	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				current PE vs NT pregnancy (cohort 4; published literature)					
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Li et al 2013	Yang et al 2011	Wu et al. 2012	Yang et al 2015	Ura et al. 2014	Akehurst et al., 2015
miR-1224-5p	na	>0.05	na	na	2.1	3.78E-02	7.79E-01	10	na	na	na	na	na	na
miR-877-3p	na	>0.05	na	na	1.6	2.32E-02	6.50E-01	8	na	na	na	na	na	na
miR-22-3p	na	>0.05	na	na	1.3	3.47E-02	7.63E-01	506	na	na	na	na	na	na
miR-382-3p	na	>0.05	na	na	-1.7	1.49E-02	5.32E-01	15	na	na	na	na	na	na
miR-193b-5p	na	>0.05	na	na	-2.0	1.11E-02	4.84E-01	17	na	na	na	na	na	na
miR-885-5p	na	>0.05	na	na	-2.0	2.95E-02	7.23E-01	8	na	na	na	na	na	na
miR-885-3p	na	>0.05	na	na	-2.3	1.74E-02	5.70E-01	15	na	na	na	na	na	na
miR-203a	na	>0.05	na	na	-2.4	2.67E-03	2.37E-01	251	na	na	na	na	na	na
miR-122-5p	na	>0.05	na	na	-2.6	4.65E-04	1.82E-01	15405	na	na	na	na	na	na
miR-9-5p	na	>0.05	na	na	-2.9	1.40E-02	5.32E-01	8	na	na	na	na	na	na
25 miRs unique to cohort 1	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				current PE vs NT pregnancy (cohort 4; published literature)					
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Li et al 2013	Yang et al 2011	Wu et al. 2012	Yang et al 2015	Ura et al. 2014	Akehurst et al., 2015
miR-184	10.3	2.35E-04	3.35E-02	52	na	>0.05	na	na	na	na	na	na	na	na
miR-6730-3p	7.3	3.46E-03	1.96E-01	4	na	>0.05	na	na	na	na	na	na	na	na
miR-499a-5p	5.8	1.85E-03	1.58E-01	45	na	>0.05	na	na	na	na	na	na	na	na
miR-218-5p	5.4	2.24E-03	1.60E-01	7	na	>0.05	na	na	na	na	na	na	na	na
miR-3591-5p	3.8	4.01E-02	6.34E-01	5	na	>0.05	na	na	na	na	na	na	na	na
miR-4667-5p	3.6	3.60E-02	5.91E-01	4	na	>0.05	na	na	na	na	na	na	na	na
miR-874-5p	3.3	1.64E-02	4.54E-01	4	na	>0.05	na	na	na	na	na	na	na	na
miR-1	3.0	5.46E-03	2.59E-01	531	na	>0.05	na	na	na	na	na	na	na	na
miR-202-3p	2.9	4.68E-02	6.54E-01	6	na	>0.05	na	na	na	na	na	na	na	na
miR-133a-3p	2.7	2.78E-02	5.16E-01	76	na	>0.05	na	na	na	na	na	na	na	na
miR-6767-5p	2.7	1.95E-02	4.91E-01	7	na	>0.05	na	na	na	na	na	na	na	na
miR-6741-3p	1.7	2.61E-02	5.07E-01	11	na	>0.05	na	na	na	na	na	na	na	na
miR-769-5p	-1.5	4.20E-02	6.40E-01	27	na	>0.05	na	na	na	na	na	na	na	na
miR-1277-5p	-1.8	2.35E-02	5.01E-01	13	na	>0.05	na	na	na	na	na	na	na	na
miR-221-5p	-1.9	3.03E-02	5.39E-01	9	na	>0.05	na	na	na	na	na	na	na	na
miR-2355-3p	-1.9	3.54E-02	5.91E-01	7	na	>0.05	na	na	na	na	na	na	na	na
miR-505-3p	-1.9	2.22E-02	5.01E-01	9	na	>0.05	na	na	na	na	na	na	na	na
miR-369-5p	-2.2	2.54E-02	5.07E-01	18	na	>0.05	na	na	na	na	na	na	na	na
miR-493-5p	-2.3	2.29E-02	5.01E-01	13	na	>0.05	na	na	na	na	na	na	na	na
miR-431-5p	-2.4	1.47E-02	4.49E-01	73	na	>0.05	na	na	na	na	na	na	na	na
miR-329-3p	-2.5	4.56E-02	6.54E-01	7	na	>0.05	na	na	na	na	na	na	na	na
miR-136-3p	-2.7	1.35E-02	4.45E-01	10	na	>0.05	na	na	na	na	na	na	na	na
miR-28-5p	-2.7	1.70E-02	4.54E-01	5	na	>0.05	na	na	na	na	na	na	na	na
miR-889-3p	-2.9	7.52E-03	3.21E-01	17	na	>0.05	na	na	na	na	na	na	na	na
miR-1292-5p	-3.6	8.28E-05	1.77E-02	8	na	>0.05	na	na	na	na	na	na	na	na

Table S7. Continued.

95 miRs unique to cohort 4	prior PE vs. NT pregnancy (ACS cohort 1)				prior PE vs. NT preg. (non-ACS cohort 2)				current PE vs NT pregnancy (cohort 4; published literature)					
	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Fold Change	p value	FDR-adjusted p value	miR level (CPM)	Li et al 2013	Yang et al 2011	Wu et al. 2012	Yang et al 2015	Ura et al. 2014	Akehurst et al., 2015
let-7a-3p	na	>0.05	na	na	na	>0.05	na	na		Up				
let-7d-5p	na	>0.05	na	na	na	>0.05	na	na		Down				
let-7f-1-3p	na	>0.05	na	na	na	>0.05	na	na		Up				
let-7f-5p	na	>0.05	na	na	na	>0.05	na	na	Down	Down				
miR-100-5p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-101-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-103a-3p	na	>0.05	na	na	na	>0.05	na	na			Up			
miR-107	na	>0.05	na	na	na	>0.05	na	na	Down					
miR-10a-5p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-114	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-1233-3p	na	>0.05	na	na	na	>0.05	na	na					Up	
miR-125a-5p	na	>0.05	na	na	na	>0.05	na	na	Up	Up				
miR-126-3p	na	>0.05	na	na	na	>0.05	na	na				Up	Down	
miR-126-5p	na	>0.05	na	na	na	>0.05	na	na				Up/Down		
miR-1260a	na	>0.05	na	na	na	>0.05	na	na		Down				
miR-1272	na	>0.05	na	na	na	>0.05	na	na		Down				
miR-130a-3p	na	>0.05	na	na	na	>0.05	na	na	Up			Up		
miR-130b-3p	na	>0.05	na	na	na	>0.05	na	na			Up			
miR-135b-5p	na	>0.05	na	na	na	>0.05	na	na				Up		
miR-136-5p	na	>0.05	na	na	na	>0.05	na	na		Up				
miR-142-3p	na	>0.05	na	na	na	>0.05	na	na				Up		
miR-144-3p	na	>0.05	na	na	na	>0.05	na	na	Up/down		Down			
miR-144-5p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-145-5p	na	>0.05	na	na	na	>0.05	na	na	Up		Up			
miR-149-5p	na	>0.05	na	na	na	>0.05	na	na				Up		
miR-151a-3p	na	>0.05	na	na	na	>0.05	na	na			Up			
miR-152-3p	na	>0.05	na	na	na	>0.05	na	na					Up	
miR-15b-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-15b-5p	na	>0.05	na	na	na	>0.05	na	na	Down				Down	
miR-16-5p	na	>0.05	na	na	na	>0.05	na	na			Down			
miR-181a-5p	na	>0.05	na	na	na	>0.05	na	na			Up			
miR-182-5p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-185-5p	na	>0.05	na	na	na	>0.05	na	na	Down	Down				
miR-188-5p	na	>0.05	na	na	na	>0.05	na	na				Up		
miR-18a-5p	na	>0.05	na	na	na	>0.05	na	na	Up			Up		
miR-18b-5p	na	>0.05	na	na	na	>0.05	na	na				Up		
miR-193a-3p	na	>0.05	na	na	na	>0.05	na	na					Up	
miR-196b-5p	na	>0.05	na	na	na	>0.05	na	na						Up
miR-199a-5p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-19a-3p	na	>0.05	na	na	na	>0.05	na	na	Up/down					
miR-19b-3p	na	>0.05	na	na	na	>0.05	na	na	Down/Up					
miR-203a-3p	na	>0.05	na	na	na	>0.05	na	na				Up		
miR-21-5p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-210-3p	na	>0.05	na	na	na	>0.05	na	na					Up	
miR-215-5p	na	>0.05	na	na	na	>0.05	na	na					Up	
miR-221-3p	na	>0.05	na	na	na	>0.05	na	na	Up		Up			
miR-223-3p	na	>0.05	na	na	na	>0.05	na	na	Down	Down				

Table S7. Continued.

miR-224-5p	na	>0.05	na	na	na	>0.05	na	na				Up		
miR-23a-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-23a-5p	na	>0.05	na	na	na	>0.05	na	na						Down
miR-23b-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-24-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-25-3p	na	>0.05	na	na	na	>0.05	na	na	Down/Up					
miR-26a-5p	na	>0.05	na	na	na	>0.05	na	na			Up			
miR-26b-5p	na	>0.05	na	na	na	>0.05	na	na	UP					
miR-27a-3p	na	>0.05	na	na	na	>0.05	na	na	UP			Up		
miR-296-5p	na	>0.05	na	na	na	>0.05	na	na					Up	
miR-29b-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-29c-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-301a-3p	na	>0.05	na	na	na	>0.05	na	na				Up		
miR-30d-5p	na	>0.05	na	na	na	>0.05	na	na			Up			
miR-32-5p	na	>0.05	na	na	na	>0.05	na	na					Up	
miR-320c	na	>0.05	na	na	na	>0.05	na	na	Down	Down				
miR-335-5p	na	>0.05	na	na	na	>0.05	na	na					Down	
miR-342-3p	na	>0.05	na	na	na	>0.05	na	na			Up			
miR-34a-5p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-378a-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-424-5p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-425-5p	na	>0.05	na	na	na	>0.05	na	na			Up			
miR-451a	na	>0.05	na	na	na	>0.05	na	na	Down					
miR-502-5p	na	>0.05	na	na	na	>0.05	na	na						Up
miR-503-5p	na	>0.05	na	na	na	>0.05	na	na						Up
miR-512-5p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-515-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-517b-3p	na	>0.05	na	na	na	>0.05	na	na	Up	Up				
miR-517c-3p	na	>0.05	na	na	na	>0.05	na	na	Up	Up		Up		
miR-518a-3p	na	>0.05	na	na	na	>0.05	na	na				Up		
miR-518b	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-518c-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-518e-3p	na	>0.05	na	na	na	>0.05	na	na		Up		Up		
miR-519a-3p	na	>0.05	na	na	na	>0.05	na	na	Up	Up				
miR-519d-3p	na	>0.05	na	na	na	>0.05	na	na	Up	Up		Up		
miR-519e-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-520a-3p	na	>0.05	na	na	na	>0.05	na	na					Up	
miR-520g-3p	na	>0.05	na	na	na	>0.05	na	na		Up				
miR-520h	na	>0.05	na	na	na	>0.05	na	na	Up	Up				
miR-521	na	>0.05	na	na	na	>0.05	na	na	Up	Up				
miR-525-3p	na	>0.05	na	na	na	>0.05	na	na	Up					
miR-542-3p	na	>0.05	na	na	na	>0.05	na	na		Up				
miR-574-5p	na	>0.05	na	na	na	>0.05	na	na			Up			
miR-650	na	>0.05	na	na	na	>0.05	na	na					Up	
miR-668-3p	na	>0.05	na	na	na	>0.05	na	na					Down	
miR-758-3p	na	>0.05	na	na	na	>0.05	na	na						Up
miR-93-5p	na	>0.05	na	na	na	>0.05	na	na			Up/Down			
miR-299-5p	na	>0.05	na	na	na	>0.05	na	na	Up					

Table S8. Number of differentially altered miRNAs that target each gene implicated in the Wnt signaling pathway. Data is stratified by cohort and the database that was used for miRNA-target integration. T: TargetsCan7.2 (predicted). M: miRTarBase7.0 (experimentally-validated).

Gene Targets	prior PE vs. NT pregnancy (Cohort 1)		prior PE vs. NT pregnancy (Cohort 2)		ACS vs non-ACS (Cohort 3)		current PE vs NT pregnancy (cohort 4; literature)	
	T	M	T	M	T	M	T	M
NFAT5	2	4	7	4	39	17	27	12
CCND2	1	4	3	3	36	35	26	23
SMAD2	3	3	3	2	32	20	20	15
CSNK2A1	3	1	3	3	26	22	16	15
NFATC3	3	1	5	1	19	4	13	1
CCND1	1	3	1	4	16	37	15	26
GSK3B	2	2	2	3	20	23	15	14
PPP3R1	1	1	3	3	23	9	18	8
MAPK8	1	2	2	1	28	13	21	8
PPP3CB	3	1	1	1	11	5	6	3
ROCK2	1	2	2	1	20	7	16	7
TCF7L2	2	1	2	1	16	12	7	8
APC	1	1	2	1	25	9	15	7
PPP2CA	1	1	2	1	17	8	9	5
SFRP1	1	2	1	1	5	12	3	4
TBL1XR1	1	1	2	1	29	19	22	6
PPP2R5C	1	1	1	1	11	9	9	9
FZD4	0	0	3	1	34	8	22	7
TP53	0	0	2	2	12	30	4	17
SMAD4	0	0	1	3	5	21	3	24
FRAT2	0	0	2	2	7	12	8	4
FZD8	0	0	3	1	17	3	6	3
CTNBP1	0	0	2	1	19	6	17	6
DVL3	0	0	2	1	12	12	7	8
PPP3CA	0	0	2	1	20	1	13	3
WNT1	0	0	1	2	14	6	9	2
CAMK2G	0	0	2	1	15	3	8	2
PPP2R1B	0	0	1	2	8	7	5	7
TCF7	0	0	2	1	6	4	4	2
EP300	0	0	1	1	10	15	4	7
FOSL1	0	0	1	1	11	7	11	3
RHOA	0	0	1	1	5	16	0	0
NLK	3	2	0	0	33	11	20	6
LRP6	3	2	0	0	35	9	17	7
PRKCA	2	2	0	0	12	5	2	3
CSNK1A1	2	1	0	0	22	11	15	9
FZD5	1	2	0	0	23	10	12	11
PPP2R5E	1	2	0	0	23	8	15	8
ROCK1	2	1	0	0	25	6	16	4
VANGL2	2	1	0	0	17	5	8	3
WNT5A	1	2	0	0	10	8	2	5
CREBBP	1	2	0	0	9	6	4	2
FZD2	1	2	0	0	6	7	4	2
DKK2	2	1	0	0	8	3	3	3
LEF1	1	1	0	0	5	2	5	1
NFATC2	4	1	0	0	27	3	0	0
AXIN1	1	1	0	0	3	3	0	0

Table S8. Continued

Gene Targets	prior PE vs. NT pregnancy (Cohort 1)		prior PE vs. NT pregnancy (Cohort 2)		ACS vs non-ACS (Cohort 3)		current PE vs NT pregnancy (cohort 4; literature)	
	T	M	T	M	T	M	T	M
FZD6	0	0	0	0	10	26	10	19
VANG1	0	0	0	0	20	8	17	3
PRICKLE2	0	0	0	0	16	7	12	10
PRKACB	0	0	0	0	17	3	16	7
WNT2B	0	0	0	0	22	5	14	2
RAC1	0	0	0	0	11	19	2	7
SMAD3	0	0	0	0	8	16	6	8
DAAM1	0	0	0	0	18	2	15	2
AXIN2	0	0	0	0	9	13	8	6
NKD1	0	0	0	0	17	7	8	4
BTRC	0	0	0	0	12	9	9	4
CCND3	0	0	0	0	12	8	8	6
WNT9B	0	0	0	0	17	5	8	1
MAP3K7	0	0	0	0	7	11	4	8
TBL1X	0	0	0	0	15	3	10	2
MAPK10	0	0	0	0	10	5	11	2
CTNNB1	0	0	0	0	2	15	1	9
WNT4	0	0	0	0	10	4	8	4
FBXW11	0	0	0	0	13	2	9	1
PRICKLE1	0	0	0	0	10	6	6	3
WNT3A	0	0	0	0	11	4	7	3
SENP2	0	0	0	0	11	6	6	1
CAMK2D	0	0	0	0	10	1	10	1
SIAH1	0	0	0	0	11	2	7	2
PRKX	0	0	0	0	6	8	4	3
WNT7B	0	0	0	0	5	6	6	4
DAAM2	0	0	0	0	6	3	8	3
WNT10B	0	0	0	0	10	2	7	1
PPARD	0	0	0	0	5	6	6	2
WNT9A	0	0	0	0	10	1	7	1
CTBP2	0	0	0	0	10	3	4	1
PPP2R1A	0	0	0	0	6	6	4	1
WNT10A	0	0	0	0	4	4	5	4
WNT7A	0	0	0	0	7	4	4	2
FZD7	0	0	0	0	2	8	1	5
SOX17	0	0	0	0	7	4	3	2
WIF1	0	0	0	0	8	1	4	3
WNT3	0	0	0	0	7	3	4	2
PRKCB	0	0	0	0	3	8	1	3
PRKACA	0	0	0	0	4	4	4	1
CHD8	0	0	0	0	6	4	1	1
WNT16	0	0	0	0	4	5	2	1
DKK1	0	0	0	0	2	3	3	3
PLCB4	0	0	0	0	8	1	1	1
PPP2R5A	0	0	0	0	4	1	5	1
SFRP4	0	0	0	0	3	2	4	2
FZD1	0	0	0	0	1	3	1	3
DVL2	0	0	0	0	4	1	1	1
FZD10	0	0	0	0	3	1	2	1
PPP2CB	0	0	0	0	2	3	1	1
RUVBL1	0	0	0	0	2	2	1	1
WNT2	0	0	0	0	1	1	2	2

Table S8. Continued

Gene Targets	prior PE vs. NT pregnancy (Cohort 1)		prior PE vs. NT pregnancy (Cohort 2)		ACS vs non-ACS (Cohort 3)		current PE vs NT pregnancy (cohort 4; literature)	
	T	M	T	M	T	M	T	M
FZD3	0	0	0	0	32	2	0	0
SKP1	0	0	0	0	11	6	0	0
CAMK2A	0	0	0	0	12	3	0	0
PLCB1	0	0	0	0	12	3	0	0
PSEN1	0	0	0	0	10	1	0	0
JUN	0	0	0	0	2	8	0	0
APC2	0	0	0	0	7	1	0	0
TCF7L1	0	0	0	0	4	4	0	0
CTBP1	0	0	0	0	1	5	0	0
PPP2R5D	0	0	0	0	3	3	0	0
CACYBP	0	0	0	0	4	1	0	0
RBX1	0	0	0	0	2	3	0	0
FRAT1	0	0	0	0	1	3	0	0
NFATC1	0	0	0	0	1	3	0	0
PLCB3	0	0	0	0	1	1	0	0
PORCN	0	0	0	0	1	1	0	0
SFRP2	0	0	0	0	1	1	0	0
CXXC4	0	0	0	0	0	0	4	1
DVL1	0	0	0	0	0	0	1	3
LRP5	0	0	0	0	0	0	2	2
PPP3R2	0	0	0	0	0	0	1	1

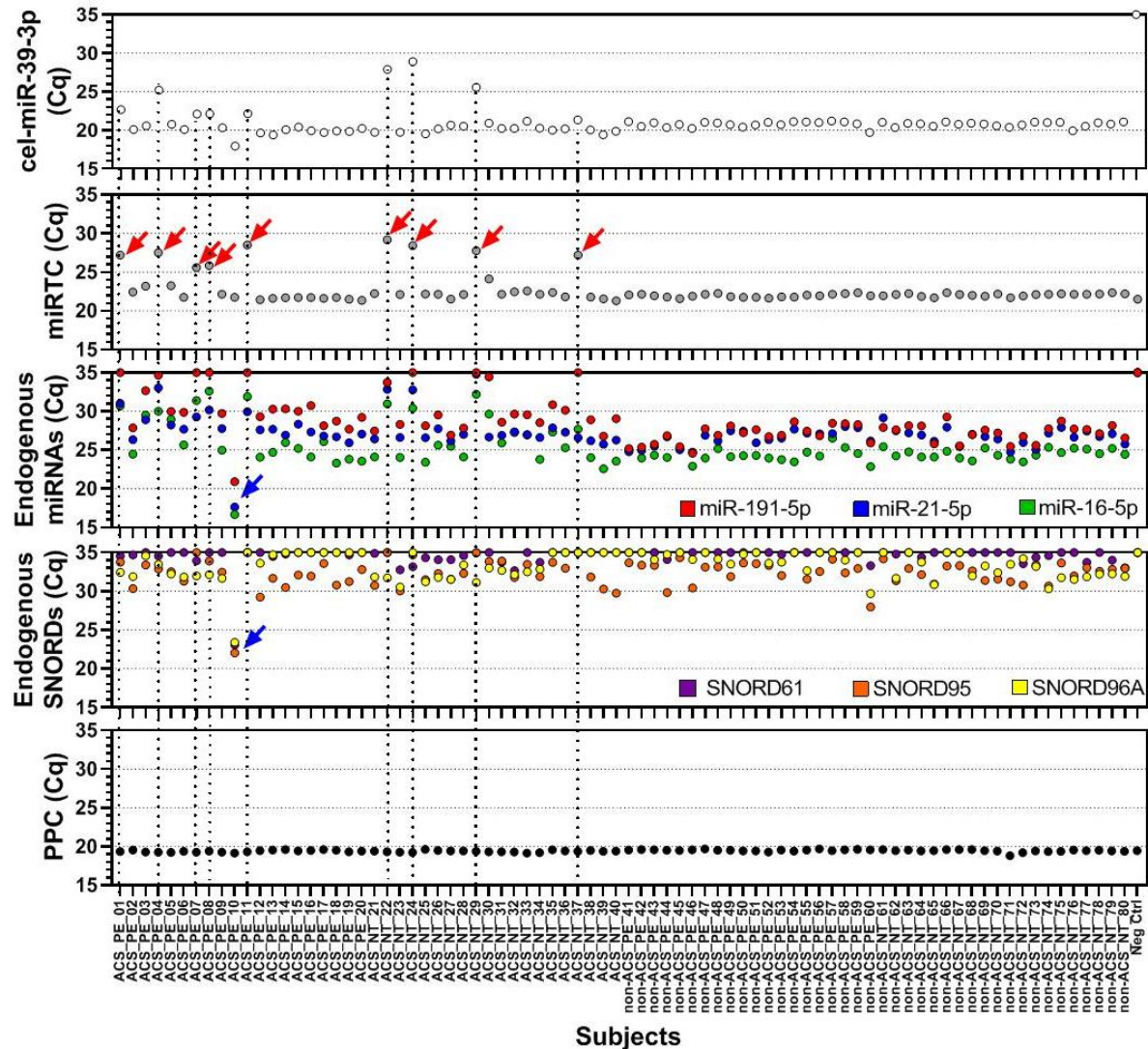
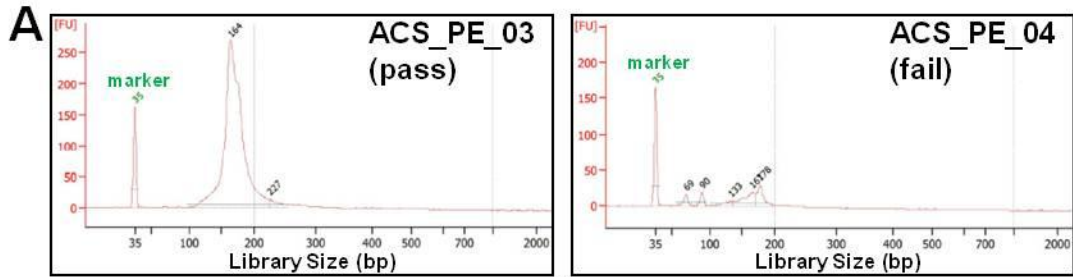


Figure S1. Quality control assessment of total RNA extracted from plasma using the miScript miRNA QC PCR array. The PCR array contains primer assays for several external spike-in controls introduced in fixed quantities at different stages in the RNA extraction and downstream RT-qPCR reactions. Cel-miR-39-3p (a miRNA mimic with no mammalian homolog) is added at the beginning of RNA extraction just after chemical denaturation of nucleases to assess variations in RNA extraction efficiency. miRTC (a synthetic RNA molecule) is incorporated into the reverse transcription reaction to monitor relative reaction efficiencies. PPC is a positive PCR control (synthetic DNA molecule) used to monitor the relative efficiency of downstream PCR reactions. In addition, primer assays for several endogenous miRNAs (i.e., miR-16, miR-21 and miR-191) are included as positive controls since these miRNAs are ubiquitously expressed across many different biologic specimens including body fluids, and several endogenous small nuclear/nucleolar RNAs (i.e., SNORD61, SNORD95, and SNORD96A) are included as negative controls (or markers of cellular contamination) since these are typically expressed abundantly in cells, but relatively poorly in body fluids. Each panel shows the PCR quantification cycles (Cq) assessed for different analytes across all 80 subjects. Each subject is denoted by the cohort (i.e., ACS or non-ACS), prior preeclampsia (PE) or normotensive pregnancy (NT) exposure, and a unique numerical identifier. Red arrows denote subject samples that were flagged for inhibition of the reverse transcription control (miRTC). In most cases these flagged subjects also showed a concomitant decrease in the levels (i.e., higher Cq values) of the external spike-in cel-miR-39-3p and several endogenous miRNAs. Blue arrow denotes a subject sample that showed a marked increase (i.e., lower Cq values) in the levels of both endogenous miRNAs and SNORDs, indicative of potential cellular contamination. Neg Ctrl denotes a mock RNA extraction performed with water instead of plasma. Overall, the majority of samples showed relatively consistent levels in both external and endogenous controls suggesting that the quality and quantity of extracted RNA was generally comparable between samples.



B

Subject (Cohort 1)	QC1: qPCR	QC2: Library	Sequencing Performed?
ACS_PE_01	pass	pass	yes
ACS_PE_02	pass	pass	yes
ACS_PE_03	pass	pass	yes
ACS_PE_04	fail	fail	no
ACS_PE_05	pass	pass	yes
ACS_PE_06	pass	pass	yes
ACS_PE_07	fail	pass	yes
ACS_PE_08	fail	pass	yes
ACS_PE_09	pass	pass	yes
ACS_PE_10	pass	fail	no
ACS_PE_11	fail	pass	yes
ACS_PE_12	pass	pass	yes
ACS_PE_13	pass	pass	yes
ACS_PE_14	pass	pass	yes
ACS_PE_15	pass	pass	yes
ACS_PE_16	pass	pass	yes
ACS_PE_17	pass	pass	yes
ACS_PE_18	pass	pass	yes
ACS_PE_19	pass	pass	yes
ACS_PE_20	pass	pass	yes
ACS_NT_21	pass	pass	yes
ACS_NT_22	fail	pass	yes
ACS_NT_23	pass	pass	yes
ACS_NT_24	fail	fail	no
ACS_NT_25	pass	pass	yes
ACS_NT_26	pass	pass	yes
ACS_NT_27	pass	pass	yes
ACS_NT_28	pass	pass	yes
ACS_NT_29	fail	pass	yes
ACS_NT_30	pass	pass	yes
ACS_NT_31	pass	pass	yes
ACS_NT_32	pass	pass	yes
ACS_NT_33	pass	pass	yes
ACS_NT_34	pass	pass	yes
ACS_NT_35	pass	pass	yes
ACS_NT_36	pass	pass	yes
ACS_NT_37	fail	pass	yes
ACS_NT_38	pass	pass	yes
ACS_NT_39	pass	pass	yes
ACS_NT_40	pass	pass	yes

Subject (Cohort 2)	QC1: qPCR	QC2: Library	Sequencing Performed?
non-ACS_PE_41	pass	pass	yes
non-ACS_PE_42	pass	pass	yes
non-ACS_PE_43	pass	pass	yes
non-ACS_PE_44	pass	pass	yes
non-ACS_PE_45	pass	pass	yes
non-ACS_PE_46	pass	pass	yes
non-ACS_PE_47	pass	pass	yes
non-ACS_PE_48	pass	pass	yes
non-ACS_PE_49	pass	pass	yes
non-ACS_PE_50	pass	pass	yes
non-ACS_PE_51	pass	pass	yes
non-ACS_PE_52	pass	pass	yes
non-ACS_PE_53	pass	pass	yes
non-ACS_PE_54	pass	pass	yes
non-ACS_PE_55	pass	pass	yes
non-ACS_PE_56	pass	pass	yes
non-ACS_PE_57	pass	pass	yes
non-ACS_PE_58	pass	pass	yes
non-ACS_PE_59	pass	pass	yes
non-ACS_PE_60	pass	pass	yes
non-ACS_NT_61	pass	pass	yes
non-ACS_NT_62	pass	pass	yes
non-ACS_NT_63	pass	pass	yes
non-ACS_NT_64	pass	pass	yes
non-ACS_NT_65	pass	pass	yes
non-ACS_NT_66	pass	pass	yes
non-ACS_NT_67	pass	pass	yes
non-ACS_NT_68	pass	pass	yes
non-ACS_NT_69	pass	pass	yes
non-ACS_NT_70	pass	pass	yes
non-ACS_NT_71	pass	pass	yes
non-ACS_NT_72	pass	pass	yes
non-ACS_NT_73	pass	pass	yes
non-ACS_NT_74	pass	pass	yes
non-ACS_NT_75	pass	pass	yes
non-ACS_NT_76	pass	pass	yes
non-ACS_NT_77	pass	pass	yes
non-ACS_NT_78	pass	pass	yes
non-ACS_NT_79	pass	pass	yes
non-ACS_NT_80	pass	pass	yes

Figure S2. Quality control assessment of sequencing libraries. Library qualification was performed on an Agilent Bioanalyzer using High Sensitivity DNA Chips (A) Electropherogram showing DNA library levels (in arbitrary fluorescence units, FU) versus size in base-pairs (bp). Left panel is an example of a library (generated for subject ACS_PE_03) that showed good yield and was considered to pass this quality control step. Right panel is an example of a library (generated for subject ACS_PE_04) that showed poor yield and quality (consistent with prior PCR QC assays), and therefore was not sequenced. (B) Summary of quality control assays for all 80 subjects. Each subject is denoted by the cohort (i.e., ACS or non-ACS), prior preeclampsia (PE) or normotensive pregnancy (NT) exposure, and a unique numerical identifier. Pass or fail outcomes are indicated for quality control assays conducted with either the plasma-extracted total RNA (i.e., for QC1 using RT-qPCR assays) or subsequently derived next-generation DNA sequencing libraries (i.e., QC2). Four subjects were not sequenced after failing both the PCR and library QC steps. An additional subject (ACS_PE_10; denoted in blue) was not sequenced because it showed evidence of cellular contamination via qPCR assay (i.e., marked elevation in levels of endogenous miRNAs and SNORDs). Virtual gel-like images are presented for each subject to show the quality of the sequencing libraries. Each gel-like image was generated from the corresponding Bioanalyzer electropherogram and manually compiled for presentation. Of note, the extracted RNA from subjects 01,07,08,11 and 37 was flagged for quality issues in the qPCR QC assays, but still generated libraries with sufficient yield/quality to conduct sequencing.

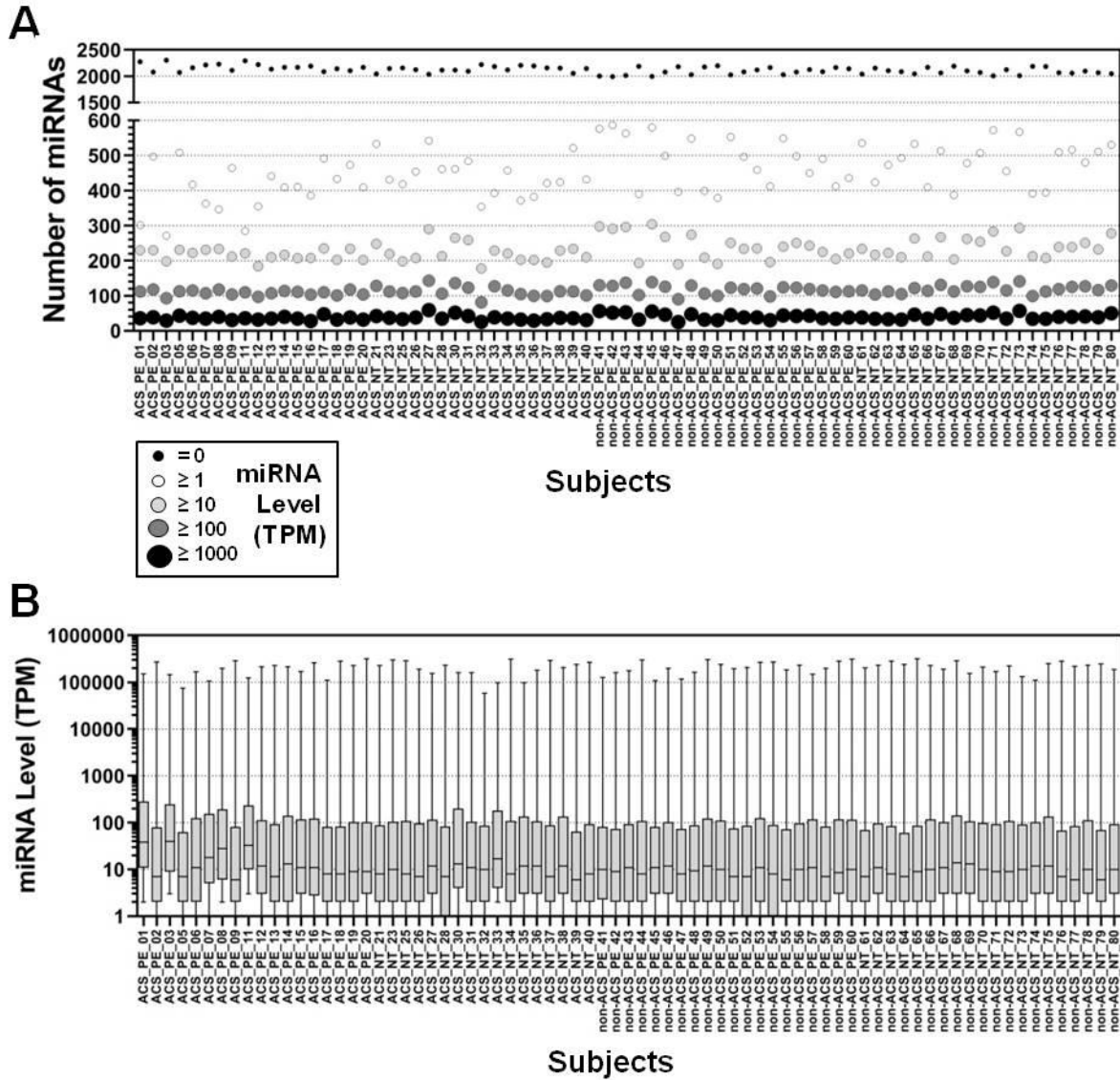


Figure S3. Distribution of plasma miRNA levels per subject identified by RNA-sequencing. (A) Number of miRNAs identified per subject per miRNA level. MiRNA levels are expressed as Tags Per Million mapped reads (TPM), which normalizes for differences in miRNA length and sequencing depth. (B) Distribution of miRNA levels per subject. Boxplots show median and interquartile range, and whiskers denote min-max range. MiRNAs with 0 TPM were excluded from the graph. Each subject is denoted by the cohort (i.e., ACS or non-ACS), prior preeclampsia (PE) or normotensive pregnancy (NT) exposure, and a unique numerical identifier.

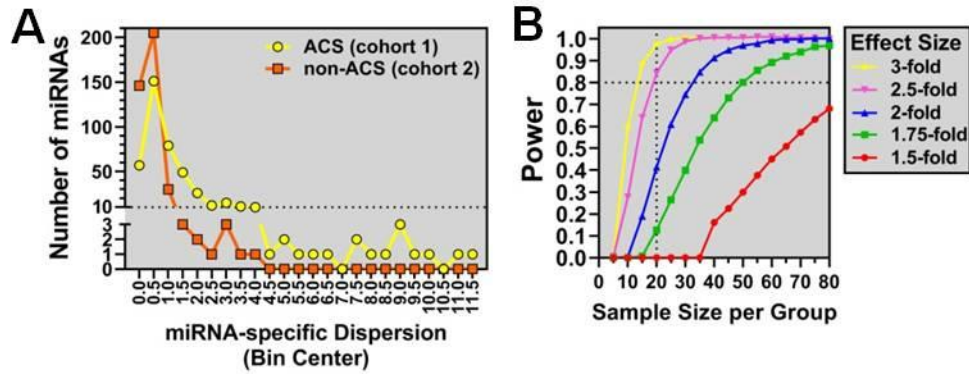


Figure S4. Dispersion of miRNA levels and related power curves. (A) Histogram showing number of miRNAs as a function of their level of dispersion across subjects (bin width = 0.5). miRNA-specific dispersion values were calculated from TMM-normalized counts for 427 miRs in ACS cohort 1 (n=17-18 subjects/exposure group) and 392 miRs in non-ACS cohort 2 (n=20 subjects/exposure group) using the R program RNASeqSampleSize. (B) Power curves showing the relationship between statistical power and sample size per group for varying effect sizes (i.e., magnitude of fold-change in miRNA level). Statistical power was estimated by RNASeqSampleSize for a hypothetical scenario assuming 400 assessed miRs, 25 differentially altered miRNAs at FDR<0.05, an average read count of 30 and dispersion level of 0.5.

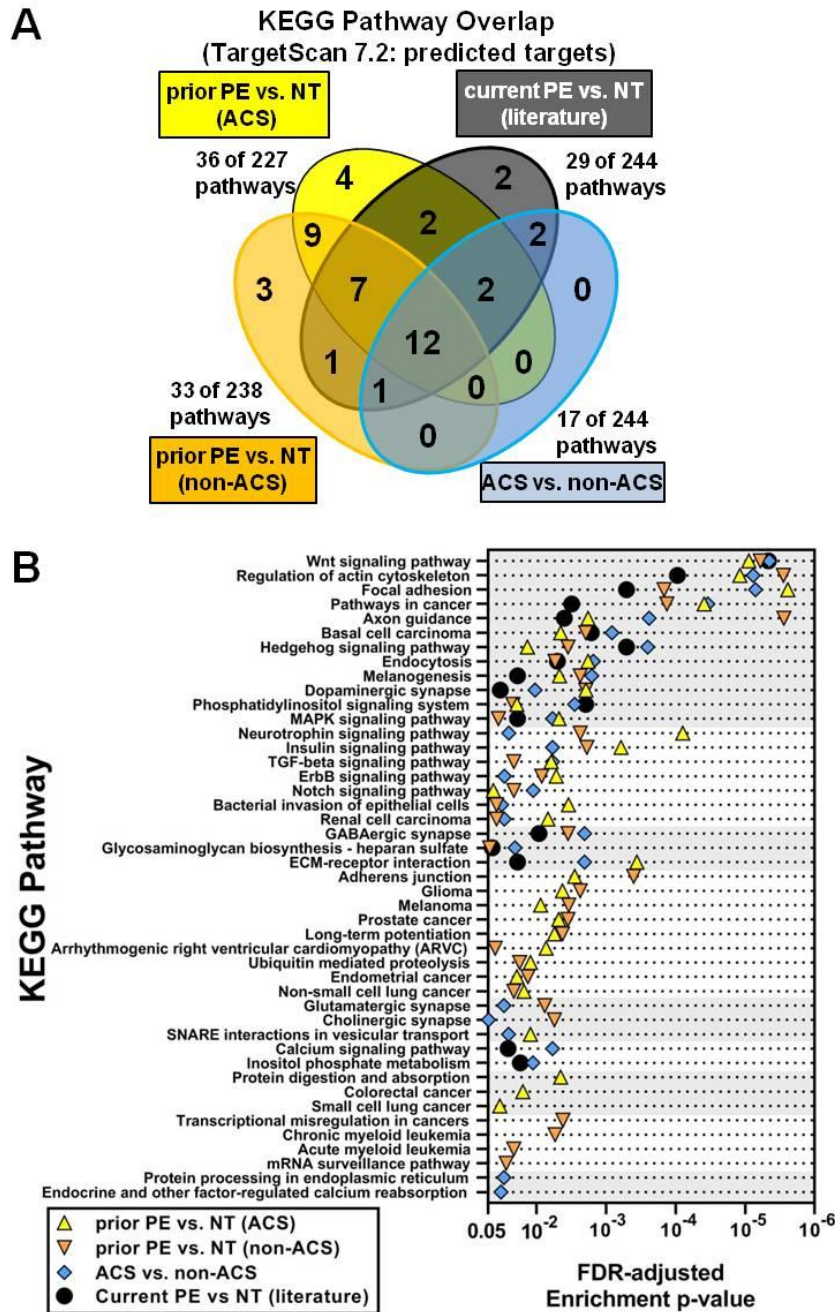


Figure S5. Integration of predicted gene targets and pathway enrichment analysis. Gene target integration was performed with 30 miRs ($p < 0.05$), 20 miRs ($p < 0.05$), 259 miRs ($FDR < 0.05$) and 104 miRs ($p < 0.05$) for cohort 1 (prior PE vs. NT exposure; ACS subjects), cohort 2 (prior PE vs. NT exposure; non-ACS subjects), cohort 3 (ACS vs. non-ACS exposure) and cohort 4 (current PE vs. NT exposure, curated from prior literature). **(A)** Venn diagram shows the number of KEGG pathways significantly enriched ($FDR < 0.05$) with the predicted gene targets of the altered miRNA candidates (via Targetscan 7.2), and the level of overlap between different exposure groups. **(B)** Identity of specific KEGG pathways from panel A and associated false discovery rate-adjusted enrichment p-values for each exposure group.

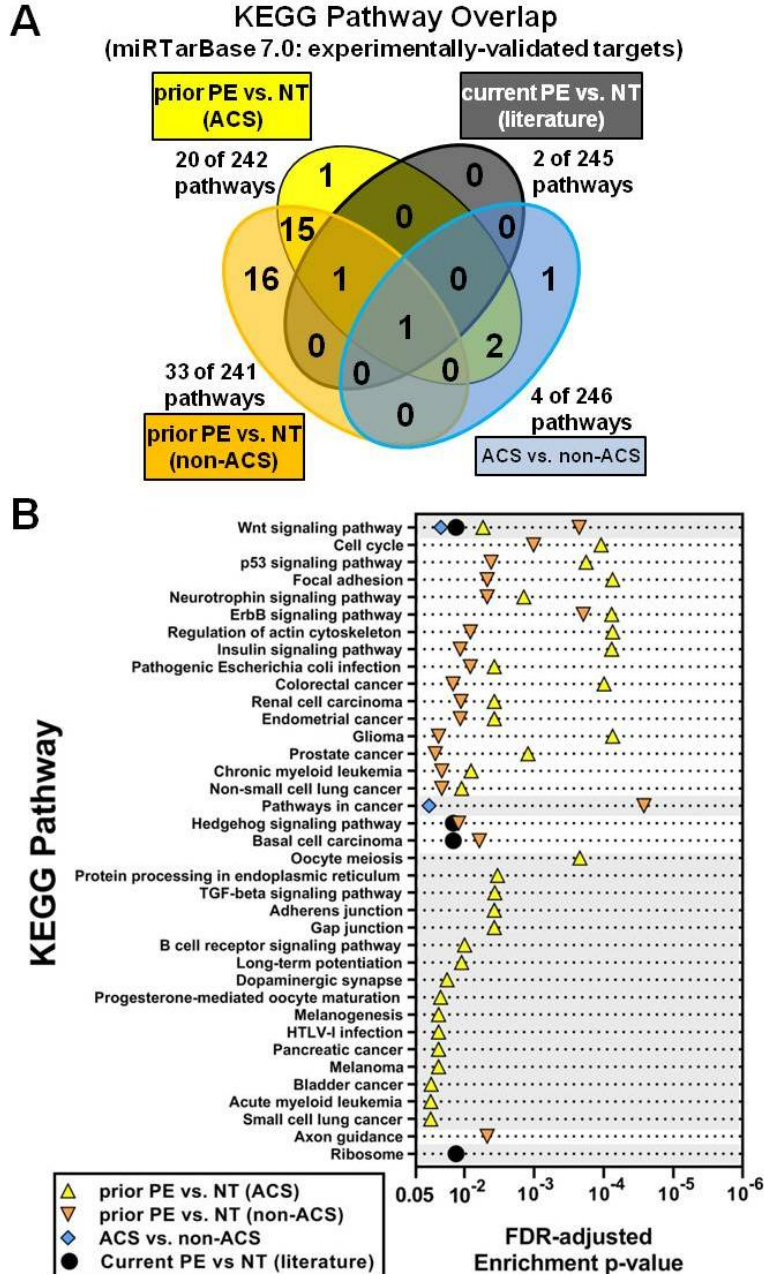


Figure S6. Integration of experimentally-validated gene targets and pathway enrichment analysis. Gene target integration was performed with 30 miRs ($p < 0.05$), 20 miRs ($p < 0.05$), 259 miRs ($FDR < 0.05$) and 104 miRs ($p < 0.05$) for cohort 1 (prior PE vs. NT exposure; ACS subjects), cohort 2 (prior PE vs. NT exposure; non-ACS subjects), cohort 3 (ACS vs. non-ACS exposure) and cohort 4 (current PE vs. NT exposure, curated from prior literature). (A) Venn diagram shows the number of KEGG biological pathways significantly enriched ($FDR < 0.05$) with experimentally-validated targets of the altered miRNA candidates (via miRTarBase 7.0 database), and the overlap between different exposure groups. (B) Identity of specific KEGG pathways from panel A, and associated false discovery rate-adjusted enrichment p-values for each exposure group.

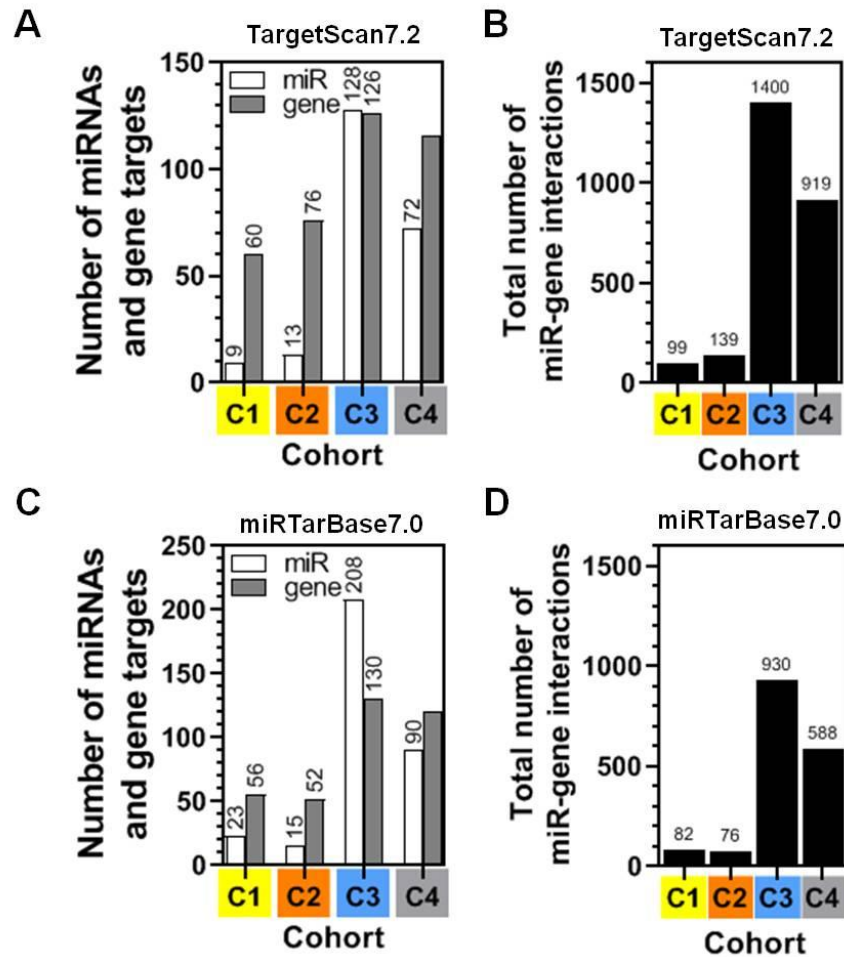


Figure S7. Characterization of miRNA-gene target interactions related to Wnt signaling in subjects with prior PE, current ACS or current PE. (A) Number of miRNAs and predicted gene targets identified in each cohort by Targetscan 7.2. (B) Total number of predicted miRNA-gene target interactions identified in each cohort by Targetscan7.2. (C) Number of miRNAs and experimentally-validated gene targets identified in each cohort by miRTarBase7.0. (D) Total number of experimentally-validated miRNA-gene target interactions identified in each cohort by miRTarBase. Cohort 1 (C1: prior PE vs. NT exposure; ACS subjects), cohort 2 (C2: prior PE vs. NT exposure; non-ACS subjects), cohort 3 (C3: ACS vs. non-ACS exposure) and cohort 4 (C4: current PE vs. NT exposure, curated from prior literature).

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