

# Early Detection of Preeclampsia Using Circulating Small non-coding RNA

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Supplementary Table S1

miRNA	Fold Change (small RNA-Seq)	<i>p</i> -value	Correlation between sequencing and qPCR ( $r^2$ )	<i>p</i> -value
<b>microRNA 99b</b>	0.65	1.57E-04	0.83	0.017
<b>microRNA 151a</b>	0.75	5.68E-04	0.73	0.011
<b>microRNA 191</b>	0.75	6.26E-04	0.7	0.016
<b>microRNA 146b</b>	0.75	2.67E-03	0.85	0.00099
<b>microRNA 221</b>	1.44	3.97E-03	0.83	0.0015

Table 1 Correlation values between five differentially expressed miRNAs in PE vs. control samples and RT-qPCR experiments. Pearson's product moment correlation coefficient were calculated between normalized counts obtained by sequencing and qPCR normalized values ( $2^{-Ct}$ ).

Supplementary Table S2

Transcript ID	Transcript Description	Transcript Biotype	Base Mean	Fold Change	P-Value	Adjusted P-Value
<b>ENST00000514519</b>	RP11-259O2.3-001	lincRNA	134.59	3.83	4.47E-05	0.0011
<b>ENST00000361558</b>	mucin 2, oligomeric mucus/gel-forming	processed_transcript	629.80	2.15	0.0005	0.0057
<b>ENST00000387461</b>	mitochondrially encoded tRNA proline	Mt_tRNA	307.32	2.43	0.0011	0.0069
<b>ENST00000385011</b>	microRNA 10b	miRNA	2,008.14	0.42	0.0011	0.0069
<b>ENST00000614316</b>	AC020956.3-001	lincRNA	481.48	1.97	0.0020	0.01
<b>ENST00000385255</b>	microRNA 182	miRNA	631.14	0.40	0.0026	0.01
<b>ENST00000612171</b>	AC113133.1-201	miRNA	10,042.65	0.43	0.0045	0.02
<b>ENST00000365699</b>	microRNA 146b	miRNA	445.87	0.48	0.0049	0.02
<b>ENST00000387347</b>	mitochondrially encoded 16S RNA	Mt_rRNA	4,147.66	0.48	0.02	0.04

**Table 2 Significantly differentially expressed transcripts in PE vs. control samples in the limited data set of 40 first trimester samples, that were also differentially expressed in the analysis of the entire dataset.**

Supplementary Table S3

Transcript ID	Transcript Description	Transcript Biotype	Base Mean	Fold Change	P-Value	Adjusted P-Value
<b>ENST00000385135</b>	microRNA 221	miRNA	371.00	5.40	1.09E-05	0.0003
<b>ENST00000514519</b>	RP11-259O2.3-001	lincRNA	309.82	5.08	2.77E-05	0.0003
<b>ENST00000387342</b>	mitochondrially encoded tRNA valine	Mt_tRNA	2,947.79	0.24	0.0014	0.0113
<b>ENST00000387421</b>	mitochondrially encoded tRNA lysine	Mt_tRNA	1,729.23	0.26	0.0022	0.0136

**Table 3 Significantly differentially expressed transcripts in PE vs. control samples in the limited data set of 40 second trimester samples, that were also differentially expressed in the analysis of the entire dataset of first trimester samples.**

Supplementary Table S4

Transcript ID	Transcript Description	Transcript Biotype	Base Mean	Fold Change	P-Value	Adjusted P-Value
ENST00000521276	microRNA 151a	miRNA	4,514.08	0.27	0.04	0.40
ENST00000384873	microRNA 191	miRNA	12,546.19	0.28	0.06	0.40
ENST00000384819	microRNA 99b	miRNA	129.85	0.31	0.07	0.40
ENST00000362280	microRNA let-7g	miRNA	653.84	0.36	0.08	0.40
ENST00000387342	mitochondrially encoded tRNA valine	Mt_tRNA	1,517.16	0.31	0.09	0.40
ENST00000385135	microRNA 221	miRNA	446.48	0.36	0.10	0.40
ENST00000626826	HELLP associated long non-coding RNA	macro_lincRNA	497.67	1.30	0.14	0.49
ENST00000365699	microRNA 146b	miRNA	413.93	0.42	0.17	0.52
ENST00000385300	microRNA 143	miRNA	861.77	0.45	0.19	0.52
ENST00000385255	microRNA 182	miRNA	617.00	0.47	0.23	0.52
ENST00000612171	AC113133.1-201	miRNA	10,420.59	0.48	0.24	0.52
ENST00000387461	mitochondrially encoded tRNA proline	Mt_tRNA	315.89	1.74	0.25	0.52
ENST00000385011	microRNA 10b	miRNA	2,488.02	0.53	0.27	0.53
ENST00000514519	RP11-259O2.3-001	lincRNA	209.70	0.60	0.39	0.63
ENST00000384816	microRNA 25	miRNA	2,728.09	0.59	0.40	0.63
ENST00000387441	mitochondrially encoded tRNA histidine	Mt_tRNA	356.59	1.70	0.40	0.63
ENST00000387449	mitochondrially encoded tRNA serine 2 (AGU/C)	Mt_tRNA	1,106.02	1.44	0.52	0.74
ENST00000614316	AC020956.3-001	lincRNA	568.39	0.80	0.54	0.74
ENST00000315707	long intergenic non-protein coding RNA 324	lincRNA	651.28	0.83	0.57	0.74
ENST00000387421	mitochondrially encoded tRNA lysine	Mt_tRNA	926.67	0.71	0.60	0.74
ENST00000387409	mitochondrially encoded tRNA tyrosine	Mt_tRNA	207.66	1.27	0.64	0.74
ENST00000387347	mitochondrially encoded 16S RNA	Mt_rRNA	6,306.61	1.28	0.68	0.74
ENST00000365096	RNA, 5.8S ribosomal pseudogene 4	rRNA	1,782.07	0.81	0.69	0.74
ENST00000581329	microRNA 4433b	miRNA	200.30	0.79	0.72	0.75
ENST00000361558	mucin 2, oligomeric mucus/gel-forming	processed_transcript	792.728	0.94	0.87	0.87

Table 4 Differentially expressed transcripts in PE vs. control samples obtained by analysis of the entire first trimester data set and their fold changes difference between the first and second trimester. Fold changes are a ratio of first trimester fold change divided by second trimester fold change.