

Table S1. Primer sequences for the validation of next-generation sequencing results.

A, lncRNA		
Gene name	Sequence (5'-3')	Product size (bp)
linc00598	Forward: TACAGCAAACAATGGACTATTGACTAA Reverse: ACTAGGATCTTAAGGCAGAGAAGTGAG	179
HAND2-AS1	Forward: TGTGGCTGGTATCGGTGTTT Reverse: GTGGAGAGGACTGGTTTCGG	93
DLX6-AS1	Forward: AGTTTCTCTCTAGATTGCCTT Reverse: ATTGACATGTTAGTGCCCTT	120
TARID	Forward: CATGCGGAGTCCAAGGGTTA Reverse: ATGCAGTGCTGTAATCTGCTCA	117
HHIP-AS1	Forward: GGCTGAAGAAGCAGAGGATAG Reverse: TTCACCACTCTGTCGGTTTAG	103
WDFY3-AS2	Forward: TTGGGGCACTCATCCCATT Reverse: TTGAGCTCGGACTGTGCATT	207
LINC00240	Forward: AGGTCACCCACCGGTCTGAA Reverse: TAGGCTGGGCTCAGCTGGAT	108
B, mRNA		
Gene name	Sequence (5'-3')	Product size (bp)
RIMKLB	Forward: AGAGTCTCATGGACGGGATG Reverse: GCTGCTTCCCTTGTTCACTC	152
CRISP3	Forward: ATGTGAGCCAAATGCAATGT Reverse: CATTACCCTGCTATATTTATCAAGA	149
TXNIP	Forward: GCCACACTTACCTTGCCAAT Reverse: TGATCTTCTGAACCCGAAGG	129
PGRMC1	Forward: CTGCATGATTTCTGTTTTATCTACCTCTA Reverse: TGTTACTGGACAGCGCTTAATCC	86
NREP (P311)	Forward: CATGCACTGCACTTCTTCGT Reverse: AAGCCTGCATTTTCAGCAGT	183
OLFM1	Forward: CAACAAGTTCCAGAGCCACA Reverse: CCAGCCTACTGACCACGA	212
STC1	Forward: GCAGGAAGAGTGCTACAGCAAG Reverse: CATTCCAGCAGGCTTCGGACAA	138
NDRG1	Forward: TACCGCCAGCACATTGTGAA Reverse: GCCACAGTCCGCCATCTT	240

Table SII. Primers information for the validation of microRNA.

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miRNA name	TaqMan™ MicroRNA Assay ID
hsa-miR-29b	hsa-miR-29b (002166)
hsa-miR-30b	hsa-miR-30b (000602)
hsa-miR-30d	hsa-miR-30d (000420)
hsa-miR-182	hsa-miR-182 (000483)
hsa-miR-183	hsa-miR-183 (002269)
hsa-miR-141	hsa-miR-141 (000463)

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All miRNAs were obtained from Invitrogen; Thermo Fisher Scientific, Inc.

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Table SV. Differentially expressed miRNAs with 1.5 FC between the mid-secretory phase and proliferative phase endometrium.

## A, Upregulated miRNAs

Mature accession	Mature ID	FC	P-value
MIMAT0019064	hsa-miR-4525	11.614	0.0054
MIMAT0002805	hsa-miR-489-3p	7.792	0.0392
MIMAT0005899	hsa-miR-1247-5p	5.767	2.39x10 <sup>-5</sup>
MIMAT0002819	hsa-miR-193b-3p	5.286	0.0098
MIMAT0004984	hsa-miR-941	4.960	0.0088
MIMAT0004925	hsa-miR-876-3p	4.292	0.0103
MIMAT0000281	hsa-miR-224-5p	4.181	5.31x10 <sup>-10</sup>
MIMAT0002172	hsa-miR-376b-3p	4.079	0.0491
MIMAT0004551	hsa-miR-30d-3p	4.032	0.0044
MIMAT0020924	hsa-miR-642a-3p	3.946	0.0484
MIMAT0000420	hsa-miR-30b-5p	3.936	7.81x10 <sup>-6</sup>
MIMAT0000267	hsa-miR-210-3p	3.613	0.0020
MIMAT0000265	hsa-miR-204-5p	3.577	0.0255
MIMAT0004947	hsa-miR-885-5p	3.563	0.0067
MIMAT0019018	hsa-miR-4484	2.996	0.0313
MIMAT0000432	hsa-miR-141-3p	2.980	1.16x10 <sup>-5</sup>
MIMAT0000245	hsa-miR-30d-5p	2.832	0.0016
MIMAT0002890	hsa-miR-299-5p	2.681	0.0092
MIMAT0000100	hsa-miR-29b-3p	2.616	0.0082
MIMAT0000682	hsa-miR-200a-3p	2.278	0.0053
MIMAT0005951	hsa-miR-1307-3p	2.152	0.0163
MIMAT0004495	hsa-miR-22-5p	2.121	0.0194
MIMAT0000086	hsa-miR-29a-3p	2.112	0.0022
MIMAT0000681	hsa-miR-29c-3p	1.959	0.0284
MIMAT0000729	hsa-miR-376a-3p	1.944	0.0092
MIMAT0000721	hsa-miR-369-3p	1.923	0.0423
MIMAT0000097	hsa-miR-99a-5p	1.851	0.0426
MIMAT0022272	hsa-miR-664b-3p	1.842	0.0103
MIMAT0000077	hsa-miR-22-3p	1.834	0.0338
MIMAT0002814	hsa-miR-432-5p	1.827	0.0024
MIMAT0000617	hsa-miR-200c-3p	1.607	0.0396
MIMAT0000444	hsa-miR-126-5p	1.536	0.0293

## B, Downregulated miRNAs

Mature accession	Mature ID	FC	P-value
MIMAT0004949	hsa-miR-877-5p	-1.597	0.0074
MIMAT0003885	hsa-miR-454-3p	-1.622	0.0263
MIMAT0004587	hsa-miR-23b-5p	-1.649	0.0018
MIMAT0001341	hsa-miR-424-5p	-1.652	0.0254
MIMAT0000093	hsa-miR-93-5p	-1.676	9.43x10 <sup>-4</sup>
MIMAT0004780	hsa-miR-532-3p	-1.681	0.0100
MIMAT0000081	hsa-miR-25-3p	-1.729	6.17x10 <sup>-4</sup>
MIMAT0004672	hsa-miR-106b-3p	-1.772	0.0023
MIMAT0004674	hsa-miR-30c-1-3p	-1.783	0.0302
MIMAT0004680	hsa-miR-130b-5p	-1.876	0.0123
MIMAT0004588	hsa-miR-27b-5p	-1.912	8.82x10 <sup>-4</sup>
MIMAT0004784	hsa-miR-455-3p	-1.919	0.0014
MIMAT0000765	hsa-miR-335-5p	-1.970	0.0200
MIMAT0015041	hsa-miR-1260b	-2.005	0.0106
MIMAT0000261	hsa-miR-183-5p	-2.051	0.0047
MIMAT0000259	hsa-miR-182-5p	-2.059	0.0284

Table SV. Continued.

## B, Downregulated miRNAs

Mature accession	Mature ID	FC	P-value
MIMAT0001541	hsa-miR-449a	-2.150	0.0157
MIMAT0000455	hsa-miR-185-5p	-2.202	0.0100
MIMAT0004749	hsa-miR-424-3p	-2.444	4.63x10 <sup>-4</sup>
MIMAT0004586	hsa-miR-15b-3p	-2.533	0.0070
MIMAT0004498	hsa-miR-25-5p	-2.803	0.0047
MIMAT0010251	hsa-miR-449c-5p	-2.879	6.23x10 <sup>-4</sup>
MIMAT0004926	hsa-miR-708-5p	-2.934	0.0040
MIMAT0005880	hsa-miR-1290	-3.336	0.0029
MIMAT0009203	hsa-miR-449b-3p	-3.745	2.30x10 <sup>-6</sup>
MIMAT0005458	hsa-miR-1224-5p	-4.161	0.0463
MIMAT0000428	hsa-miR-135a-5p	-4.164	0.0039
MIMAT0004679	hsa-miR-296-3p	-4.209	6.75x10 <sup>-5</sup>
MIMAT0015056	hsa-miR-3179	-4.556	0.0399
MIMAT0022833	hsa-miR-365b-5p	-5.053	0.0357
MIMAT0000094	hsa-miR-95-3p	-5.245	0.0112
MIMAT0004762	hsa-miR-486-3p	-5.247	9.19x10 <sup>-4</sup>
MIMAT0004703	hsa-miR-335-3p	-5.584	8.24x10 <sup>-5</sup>
MIMAT0000705	hsa-miR-362-5p	-7.238	0.0064
MIMAT0004609	hsa-miR-149-3p	-8.623	0.0040

miRNAs/miRs, microRNAs.