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Supplemental information

circRNA-DURSA regulates trophoblast

apoptosis via miR-760-HIST1H2BE axis

in unexplained recurrent spontaneous abortion

Minyue Tang, Long Bai, Zhe Wan, Shan Wan, Yu Xiang, Yeqing Qian, Long Cui, Jiali You, Xiaoling Hu, Fan Qu, and Yimin Zhu

Table S1 Clinical characteristics of the women included in this study

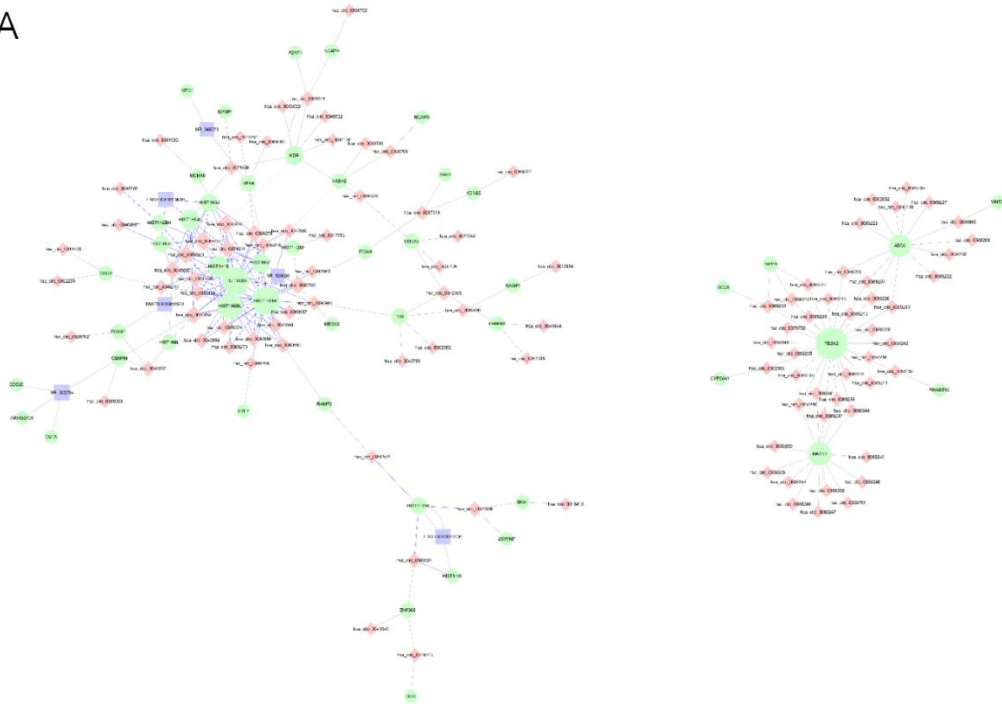
	NP (n=15)	URSA (n=15)	P value
Age (year)	28.13 ± 1.28	29.07 ± 0.90	0.5166
Gestational weeks (day)	60.80 ± 2.064	64.27 ± 2.172	0.2802

Table S2 Primers and RNA sequences used in this study

Gene	primers for Real-time PCR or sequences	
circRNA0050703	Forward	CCCGAGAGTCTGGAGAACTC
	Reverse	TGTAGTCCATCCGAACCCTG
circRNA0046770	Forward	CACCAAAATGCCACCCTTGA
	Reverse	CCAGTAGTACTTGGGAGCCA
circRNA0042563	Forward	ACCCCAATACCAAGACCAACT
	Reverse	TGGCTCTGGAAGTTGATCATG
circRNA0042569	Forward	GCGTGCAGAAACATTGGTCT
	Reverse	GGAGATGAGTTGTTGCTGCC
circRNA0046769	Forward	TACAGAGCTGAGGACCATGC
	Reverse	GCCTGTGTGCTTAAAGTGAGT
GAPDH	Forward	TGGTATCGTGGAAGGACTCA
	Reverse	ATGATGTTCTGGAGAGCCCC
HIST1H2BE	Forward	CCGAAGAAGGGCTCCAAGAA
	Reverse	CCCCATGGCTTTAGAGGAGA
WDR62	Forward	GTGGTGGTGATTTTGGACCC
	Reverse	ATCTCCGCCACCTGATTCTT
Has-miR-760	GGCTCTGTGTCTGTGGGGAA	
circRNA-0050703 (circRNA-DURSA) pull-down probes	5'- GATGTCTCTGTTGCCTCACTCAGCAGGC -3' Biotin	
circRNA-0050703 (circRNA-DURSA) siRNA-1	Sense (5'-3')	CTGAGTGAGGCAACAGAGA
	Anti-sense (5'-3')	TCTCTGTTGCCTCACTCAG
circRNA-0050703 (circRNA-DURSA) siRNA-2	Sense (5'-3')	CCTGCTGAGTGAGGCAACA
	Anti-sense	TGTTGCCTCACTCAGCAGG

	(5'-3')	
circRNA-0046770 siRNA	Sense (5'-3')	TGAACTCAAGTAAACAGTA
	Anti-sense (5'-3')	TACTGTTTACTTGAGTTCA
circRNA-0042563 siRNA	Sense (5'-3')	TTTCTCCAAGTGGACAAAC
	Anti-sense (5'-3')	GTTTGTCCACTTGGAGAAA
circRNA-0042569 siRNA	Sense (5'-3')	AAGGATGCGGAAGGCAGCA
	Anti-sense (5'-3')	TGCTGCCTTCCGCATCCTT
circRNA-0046769 siRNA	Sense (5'-3')	TCTGTACAGCTGACTGCGT
	Anti-sense (5'-3')	ACGCAGTCAGCTGTACAGA

A



B

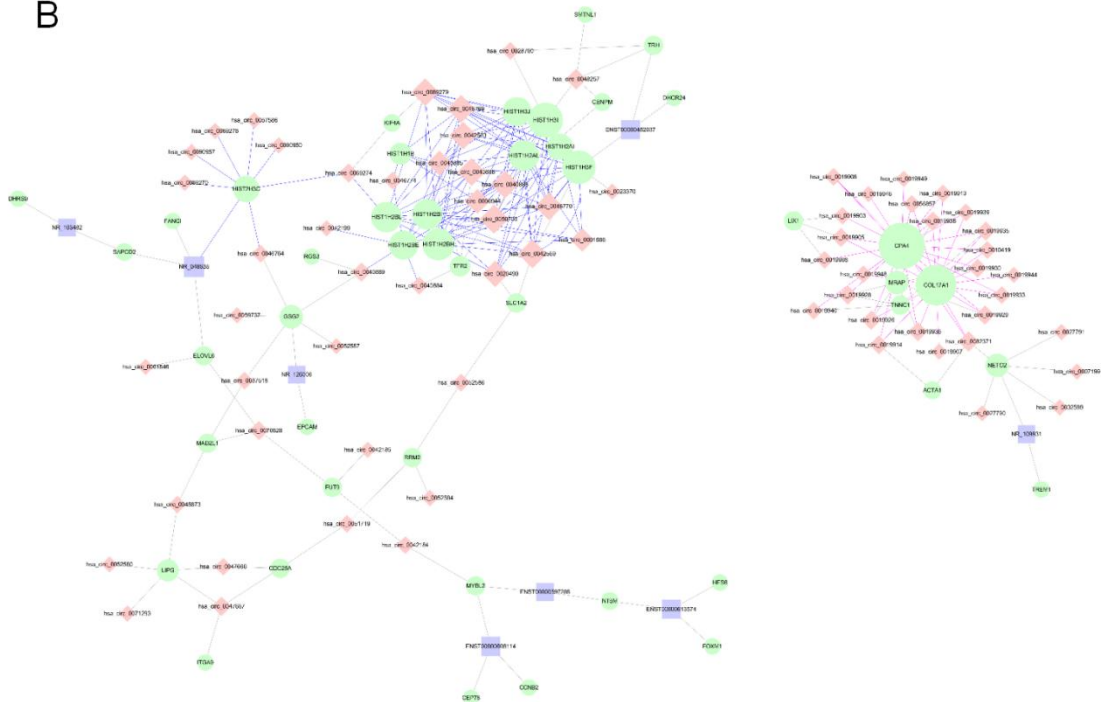


Figure S1 CeRNA networks in the URSA and normal pregnancy groups

(A) CeRNA networks in the URSA group. (B) CeRNA networks in the normal pregnancy group.

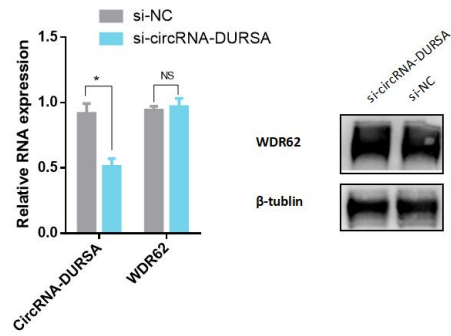


Figure S2 The impact of si-circRNA-DURSA on the expression of WDR62

WDR62 mRNA and protein expression levels were detected by western blot and qRT-PCR while silencing of circRNA-DURSA.

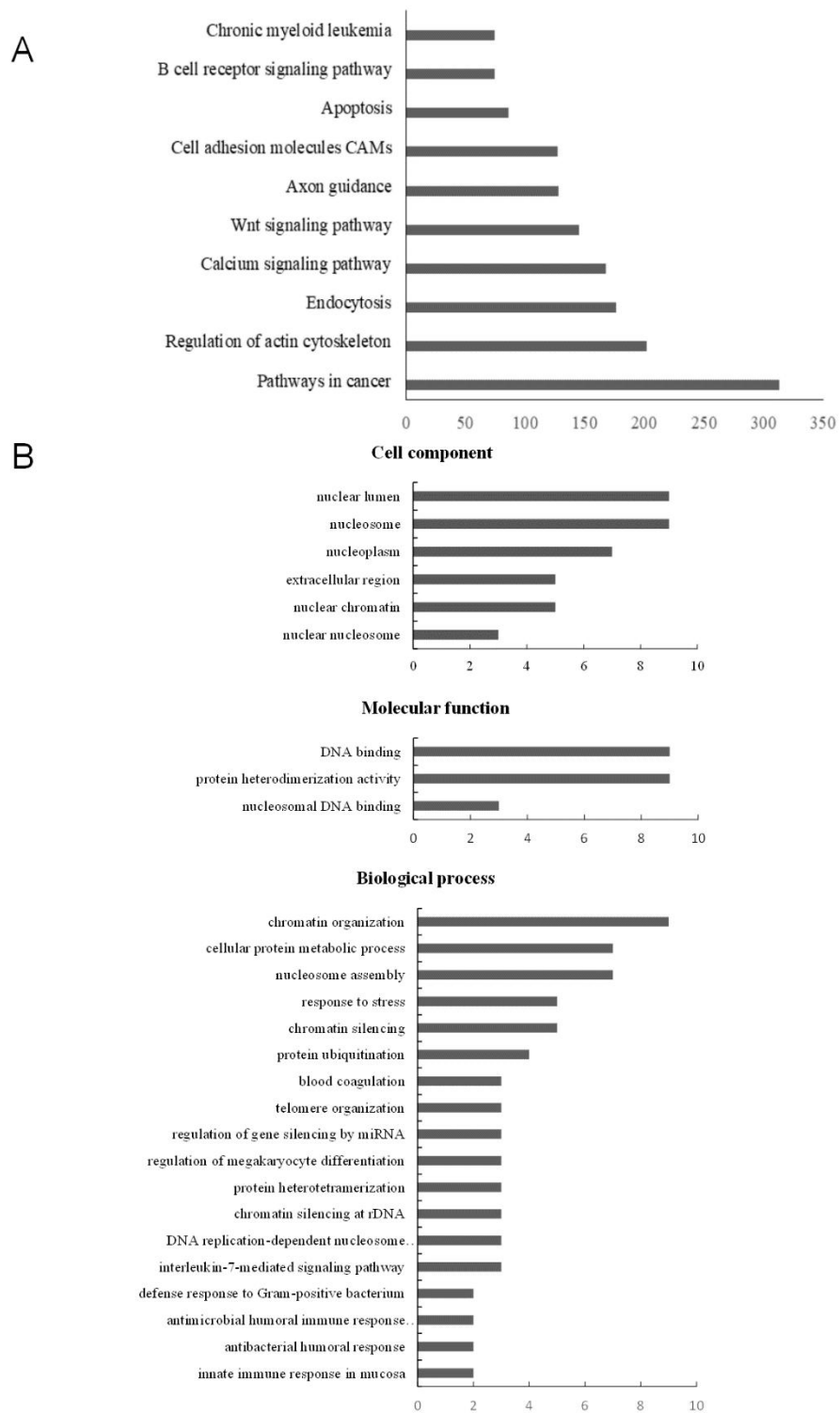


Figure S3 KEGG and GO analysis of miR-760

(A) The KEGG analysis of miR-760. (B) The GO analysis of miR-760.