

Figure S1. RT-qPCR analysis of NOTCH3 pathway genes after transfection of miR-1299 mimics in OC CAOV3 cells. *P<0.05 and **P<0.01; ns, not significant. OC, ovarian cancer; NOTCH3, notch receptor 3; HES1, hairy and enhancer of split-1; HEY1, Hes related family BHLH transcription factor with YRPW motif 1; HEY 2, Hes related family BHLH transcription factor with YRPW motif 2; JAG1, Jagged canonical Notch ligand 1; PBX1, Pre-B-cell leukemia transcription factor 1.

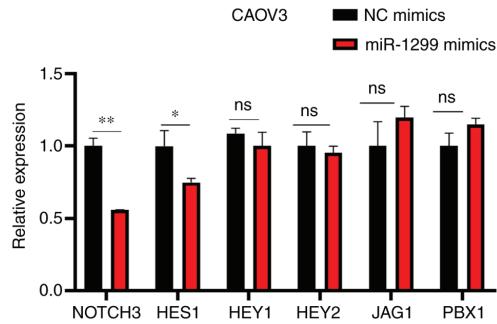


Figure S2. (A) Confirmation of NOTCH3 knockdown and NICD3 overexpression (OE) by western blot analysis in OC A2780 cells and NICD3 overexpression in OC SKOV3 cells. (B) RT-qPCR analysis of miR-1299 after NOTCH3 knockdown in A2780 cells and NICD3 overexpression in SKOV3 cells. * $P<0.05$ and ** $P<0.01$. NOTCH3, notch receptor 3; NICD3, NOTCH3 intracellular domain.

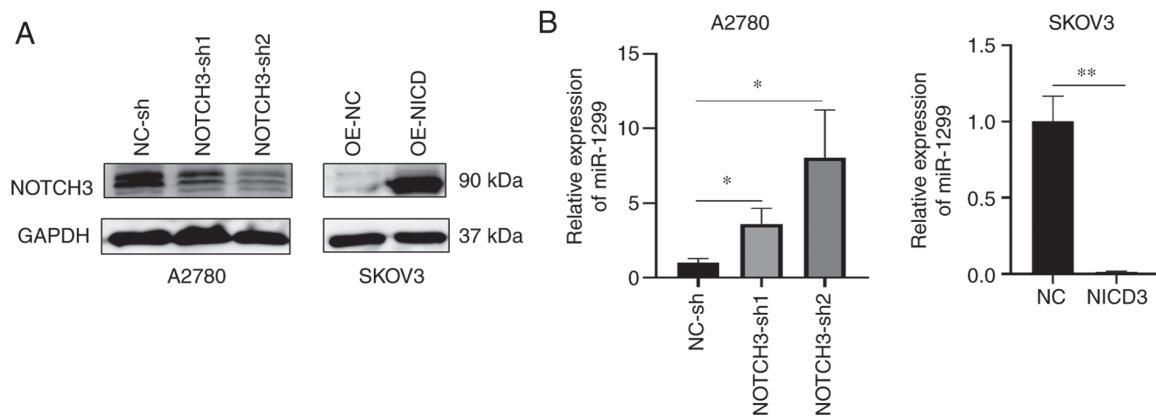


Figure S3. (A) Putative miR-1299 binding sites in XIST and (B) relative luciferase activity of reporter plasmids carrying wild-type (WT) XIST in OC A2780 cells co-transfected with NC or miR-1299 mimics. ns, not significant. OC, ovarian cancer; XIST, X-inactive specific transcript.

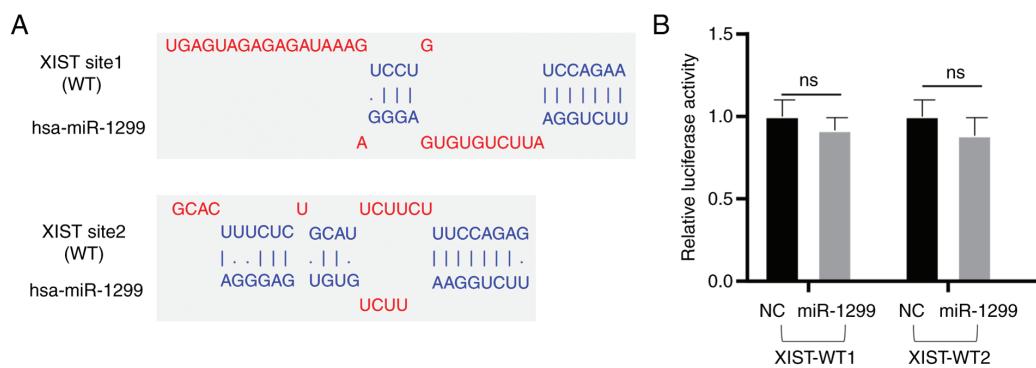


Table S1. PCR primers for this study

	Gene symbol	Forward primer	Reverse primer
Quantitative RT-PCR			
NOTCH3	GTGTGTGTCATTGGCTGGAC	GTGACACAGGAGGCCAGTCT	
TUG1	AGGTAGAACCTCATGCATTGGTG	ACTCTTGCTTCACTACTTCATCCAG	
XIST	CGGTCTCTCAAGGACATTAGCC	GCACCAAATACAGAGGAATGGAGGG	
hsa-miR-1299	CCCTAACGGTTCTGGAAATTCTGT	TATGGTTGTTCACGGACTCCTTCAC	
U6	CGCTTCGGCAGCACATATAC	TTCACCGAATTGCGTGTCACT	
HE1	CCTGTCATCCCCGTCTACAC	CACATGGAGTCCGCCGTA	
HEY1	GTTCGGCTCTAGGTTCCATGT	CGTCGGCGCTCTCAATTATTC	
HEY2	GCCCGCCCTGTCACTGATTC	CCAGGGTGGTAAGGTTTATG	
PBX1	CATGCTGTTAGCGGAAGGC	CTCCACTGAGTTGCTGAACC	
JAG1	GTCCATGCAAGAACGTGAACG	GCGGGACTGATACTCCITGA	
NOTCH3-3'UTR-WT	CTTCCACCAACCCCTCTG	GCTGGCCAGAGGATTAC	
Site-directed mutagenesis			
PCR	CCTCACTTCACTGCAGATTGCATTGGGACATGTTCC	GGAACATGTCCCAATGCAATCTGCAGTGAAGTGAGG	
NOTCH3-3'UTR-MUT-F		AGTTGTAGCAGGATTCAGG	
NOTCH3-3'UTR-MUT-R			
TUG1-WT1	CTCTGAAGAAAGGCAACAT	TCAAGAGAAGCCTTGTGCTGATCTGGTGCAGCCTT	
TUG1-MUT1-F	AAGGCTGCACCAAGATCAGCACAAAGGCTTCTCTGA	CTGAAAGTTATCTGCTCCA	
TUG1-MUT1-R			
TUG1-WT2	GATTAGATGTAGGCCAGTTATG	TCTCCAAGTCATTCTGCACAGAAATGACTTG	
TUG1-MUT2-F	AGAGACAGATAAATCTCACTCGTGCAGAAATGACTTG		
TUG1-MUT2-R	GAGA		
		CTCT	

NOTCH3, notch receptor 3; HES1, hairy and enhancer of split-1; HEY1, Hes related family BHLH transcription factor with YRPW motif 1; HEY2, Hes related family BHLH transcription factor with YRPW motif 2; JAG1, Jagged canonical Notch ligand 1; PBX1, Pre-B-cell leukemia transcription factor 1; WT, wild-type; MUT, mutant; R, reverse; F, forward.