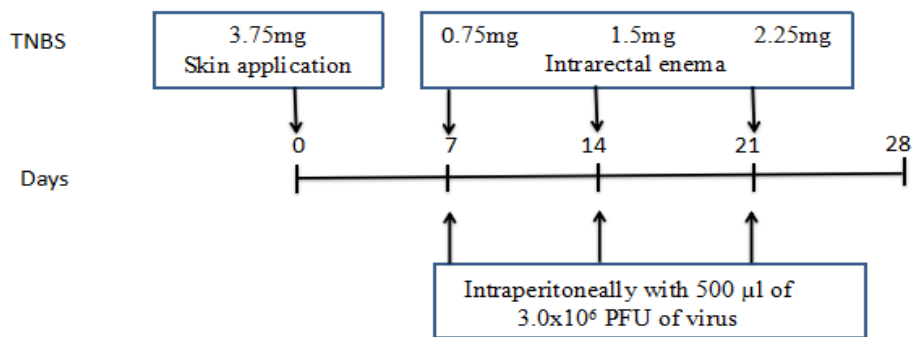
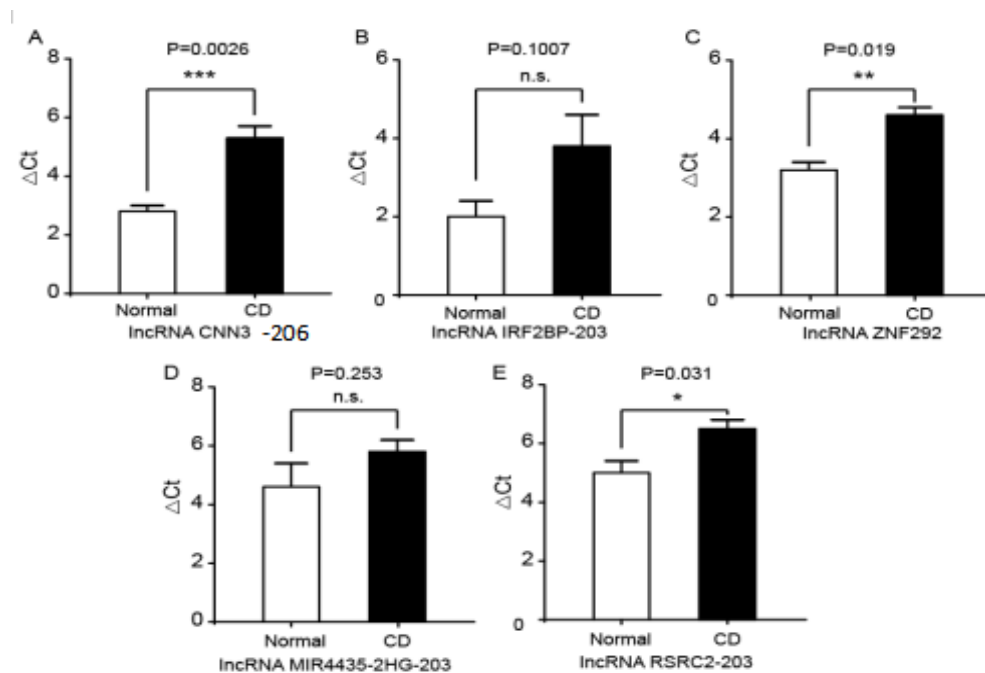
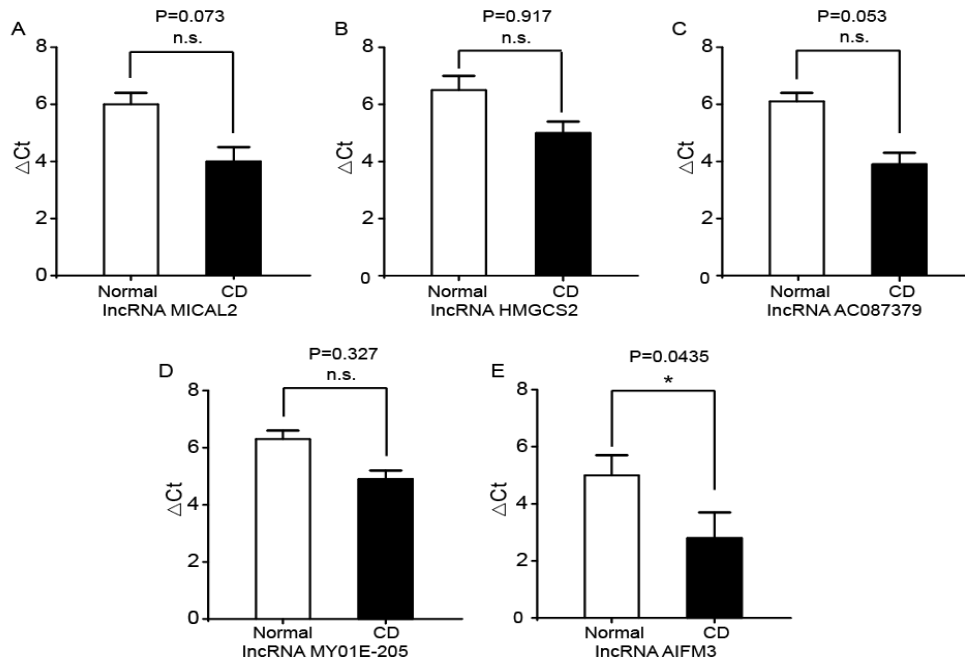


Supplementary Figure 1 Tests on the efficacy of lentivirus transfection. The intestinal epithelial cells Caco2 and HT-29 are adherent cells. According to the distribution of green fluorescence, the transfection efficiency is very high.

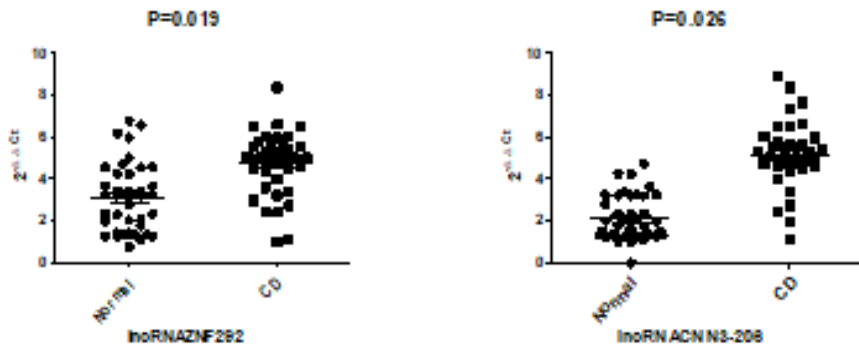


Supplementary Figure 2 Schematic illustration of construction of TNBS-induced mouse CD model.





Supplementary Figure 3 Verification of the differentially expressed lncRNAs.



Supplementary Figure 4 Overexpression of lncRNACNN3-206 and lncRNAZNF292 in 40 normal and 40 diseased intestinal mucosa tissue samples

Transcript: CNN3-206 ENST00000487539.1

Description: calponin 3 [Source:HGNC Symbol;Acc:HGNC:2157]

Location: Chromosome 1: 94,897,947-94,903,321 reverse strand.

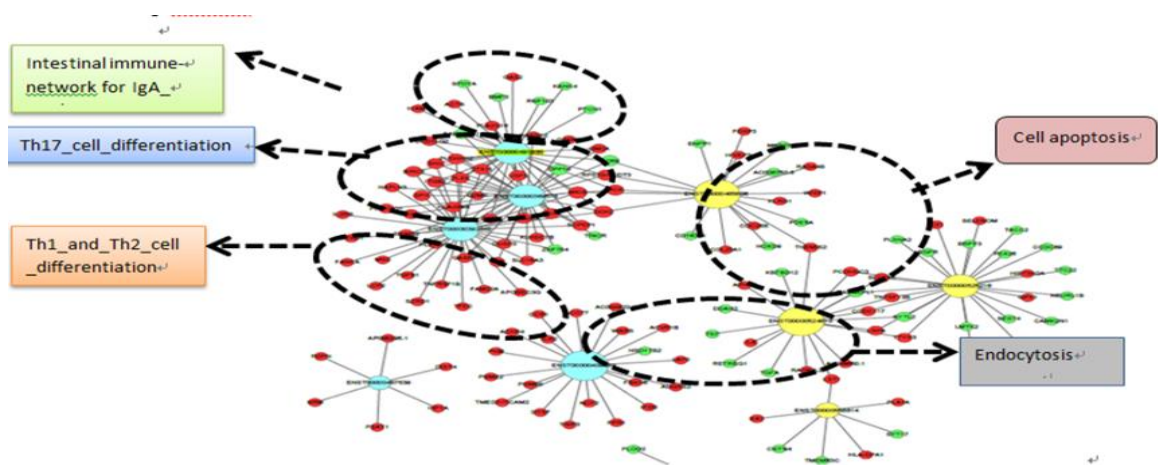
About this transcript: This transcript has 5 exons, is associated with 1264 variations and maps to 359 oligo probes.

Gene: This transcript is a product of gene ENSG00000117519 [Hide transcript table](#)

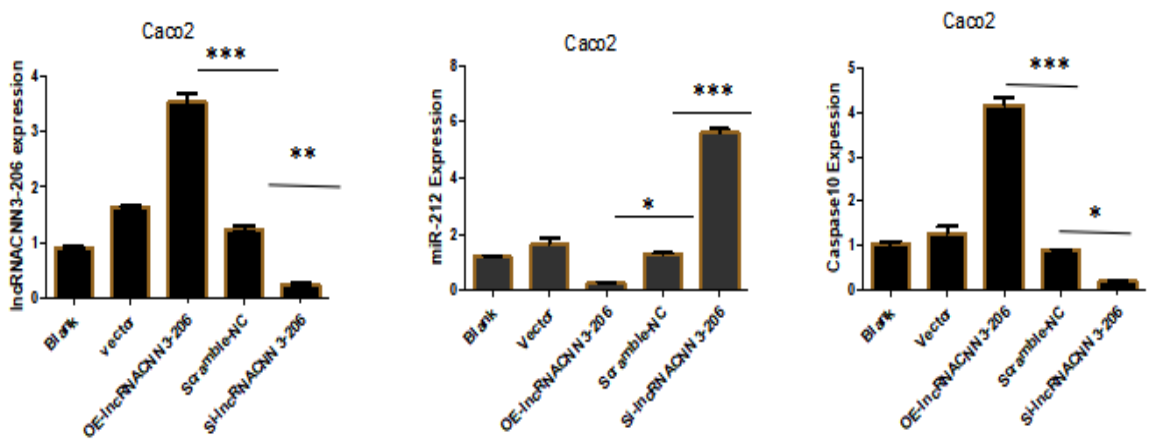
Name	Transcript ID	bp	Protein	Biotype	CCDS	UniProt	RefSeq	Flags
CNN3-201	ENST00000370206.8	2165	329aa	Protein coding	CCDS30775	Q15417	NM_001839 NP_001830	TSL:1 GENCODE basic APPRIS P1
CNN3-202	ENST00000394202.8	1974	283aa	Protein coding	CCDS65593	Q15417	NM_001286055 NP_001272984	TSL:2 GENCODE basic
CNN3-207	ENST00000545882.5	1902	288aa	Protein coding	CCDS65592	Q15417	NM_001286056 NP_001272985	TSL:2 GENCODE basic
CNN3-203	ENST00000415017.1	792	185aa	Protein coding	-	E9PDU6	-	CDS 3' incomplete TSL:2
CNN3-206	ENST00000487539.1	739	No protein	Processed transcript	-	-	-	TSL:2
CNN3-204	ENST00000461018.5	568	No protein	Processed transcript	-	-	-	TSL:2
CNN3-205	ENST00000474409.1	544	No protein	Processed transcript	-	-	-	TSL:3

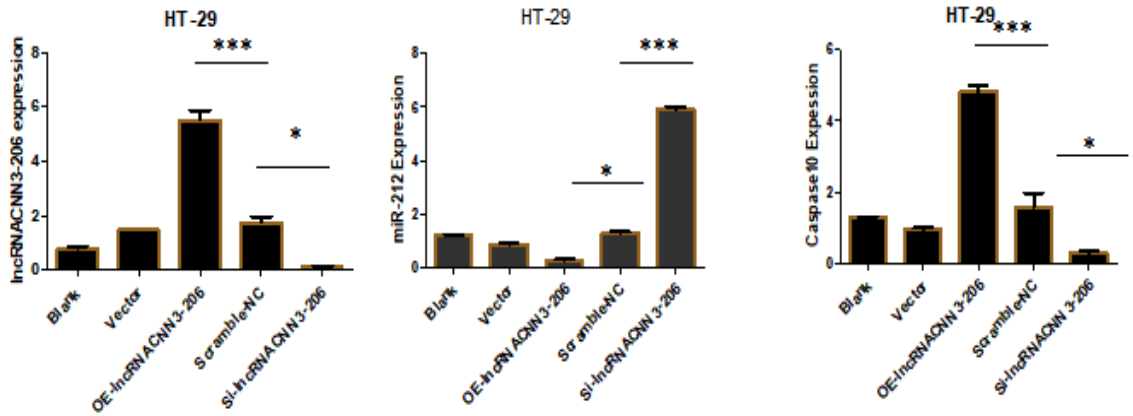


Supplementary Figure 5 Confirming lncRNA CNN3-206 by biogene website and PCR gel swimming.

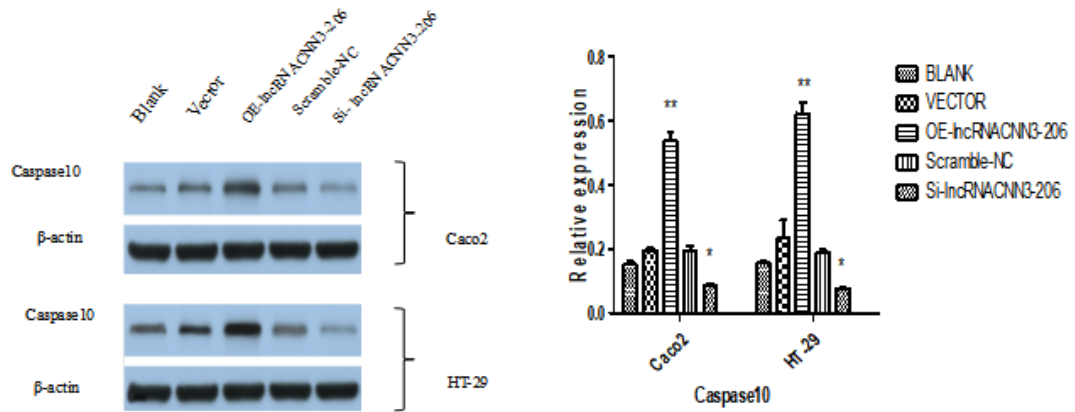


Supplementary Figure 6 CNC analysis on target mRNAs and functions potentially regulated by the top lncRNAs.





Supplementary Figure 7 Manipulation of IncRNA CNN3-206 expression in Caco2 and HT-29 cell lines led to altered expression of miR-212 expression and Caspase10.



Supplementary Figure 8 Correspondent changes of Caspase10 after manipulation of IncRNACNN3-206 expression in Caco2 and HT-29 cell lines.