

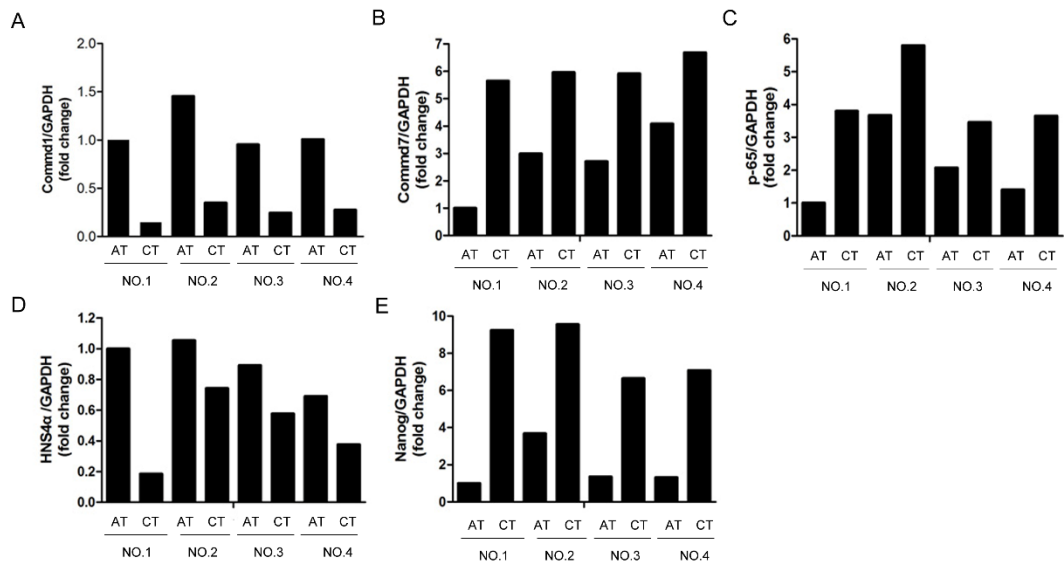
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## **Supplemental Information**

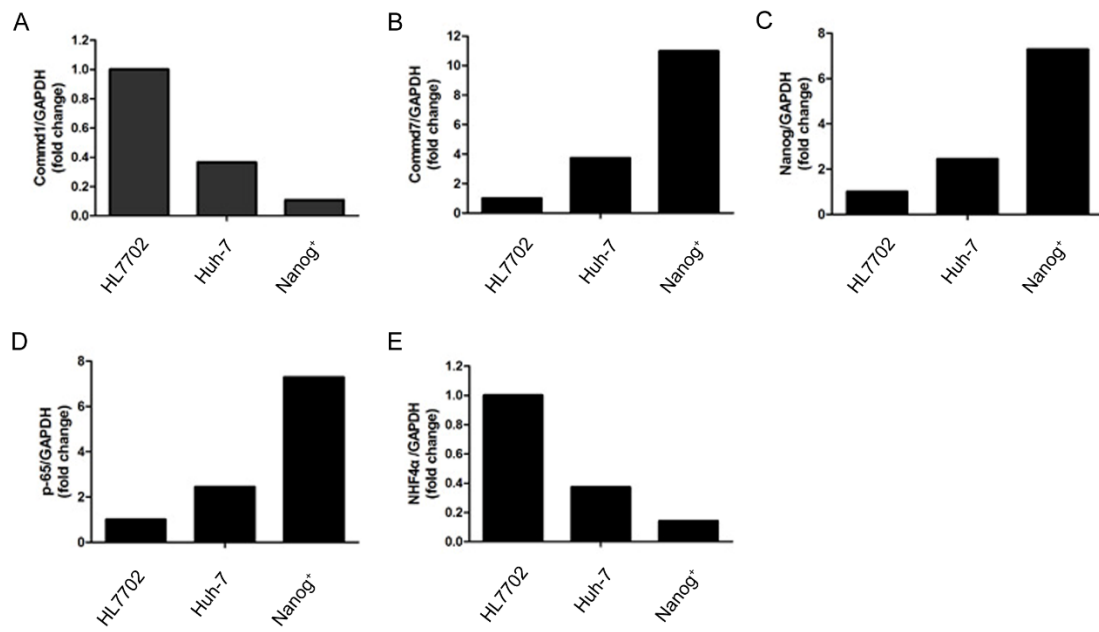
### **COMMD7 Regulates NF- $\kappa$ B Signaling Pathway in Hepatocellular Carcinoma Stem-like Cells**

**Lu Zheng, Nan You, Xiaobing Huang, Huiying Gu, Ke Wu, Na Mi, and Jing Li**

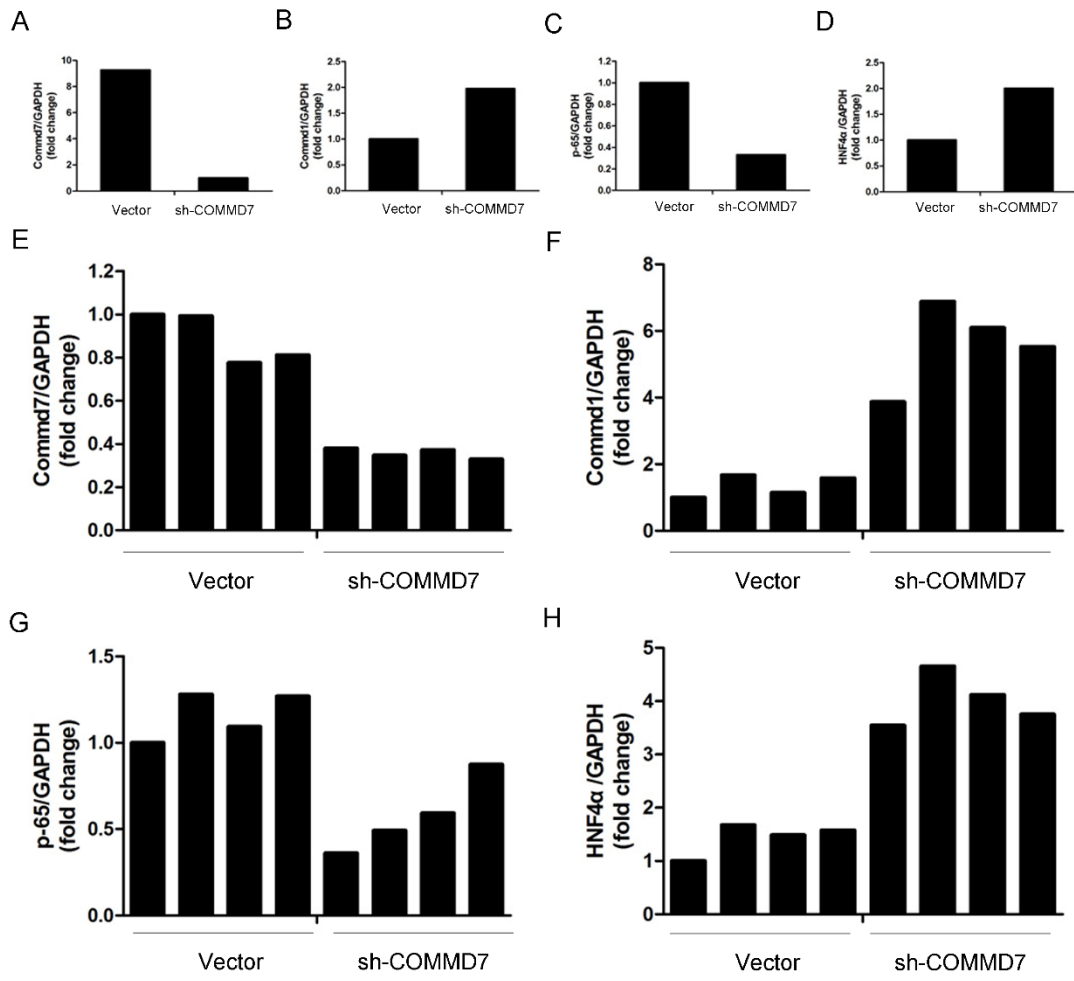
Supplementary figure 1



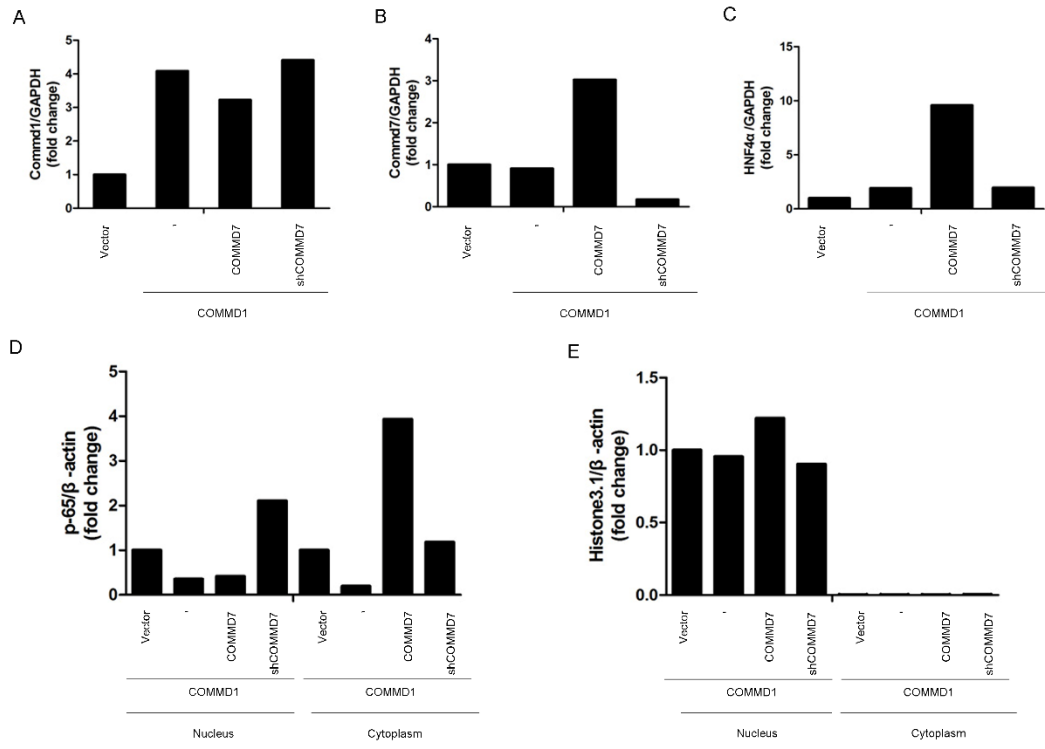
Supplementary figure 2



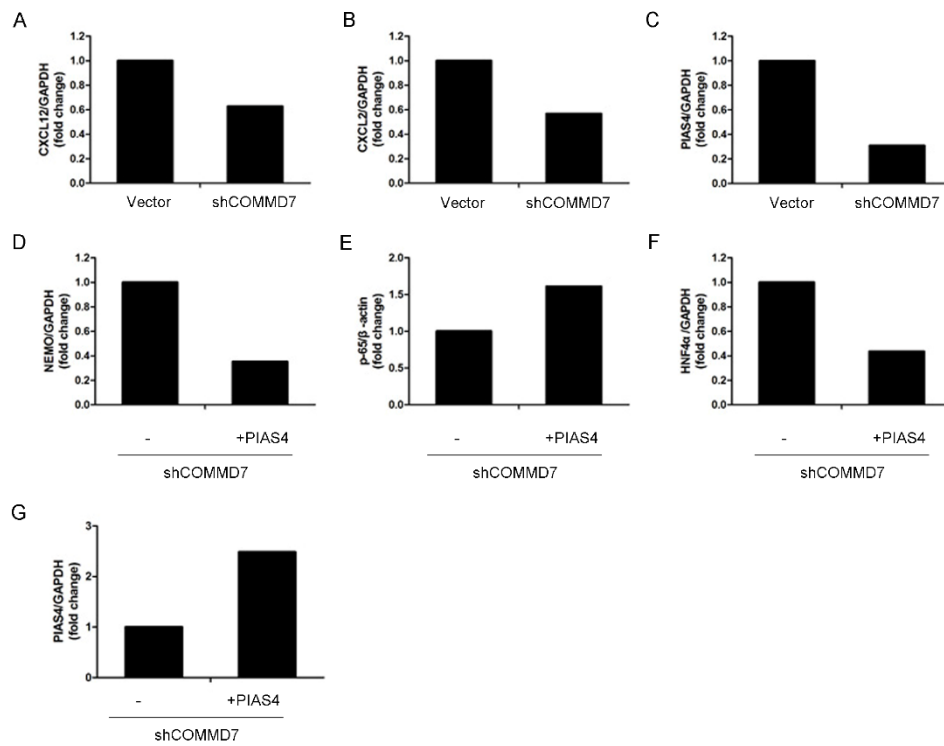
Supplementary figure 3



Supplementary figure 4



Supplementary figure 5



Supplementary figure legends:

S1

The grayscale analysis of F1c.

S2

The grayscale analysis of F2b.

S3

The grayscale analysis of F3c and F3k.

S4

The grayscale analysis of F4b and F4c.

S5

The grayscale analysis of F7b and F7d.

**Table S1** Primers for quantitative real-time polymerase chain reaction (qRT-PCR)

Gene	Forward (5' - 3')	Reverse (5' - 3')
Nanog	CCCCAGCCTTTACTCTTCCTA	CCAGGTTGAATTGTTCCAGGTC
COMMD7	TCCAGGCGGATTTTCATAACTCT	CACTTTCTCCAATTCGCTGCT
COMMD1	CTGTTGCCATTATAGAGCTGGAA	GCGTCTTCAGAATTTGGTTGACT
HNF4 $\alpha$	CGAAGGTCAAGCTATGAGGACA	ATCTGCGATGCTGGCAATCT
PIAS4	ATGAACGAGAAGAAGCCCAC	TCCACCAGGTACTCGATCTC
GAPDH	TGTTTCGTCATGGGTGTGAAC	ATGGCATGGACTGTGGTCAT

**Table S2** Top 10 KEGG pathways in Nanog<sup>+</sup> hepatocellular carcinoma stem cells after COMMD7 knockdown with *p* value < 0.05

Pathway ID	P-value	Count	Genes
Has04668, TNF signaling pathway	1.31E-05	11	AKT3, CCL20, CXCL1, CXCL2, CXCL5, FOS, ICAM1, JUN, NFKBIA, SOCS3, TNFAIP3
Has04915, Estrogen signaling pathway	1.87E-04	9	ADCY8, AKT3, FOS, GABBR2, GNAO1, HSPA1A, HSPA1B, JUN, PLCB4
Has05323, Rheumatoid arthritis	4.46E-04	8	CCL20, CXCL1, CXCL12, CXCL5, FOS, ICAM1, JUN, TGFB2

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Has04621, NOD-like receptor signaling pathway	6.68E-04	11	CAMP, CARD16, CASP4, CASP5, CXCL1, CXCL2, JUN, NFKBIA, NOX1, PLCB4, TNFAIP3
Has05134, Legionellosis	8.25E-04	6	CXCL1, CXCL2, HBS1L, HSPA1A, HSPA1B, NFKBIA
Has04380, Osteoclast differentiation	1.43E-03	9	AKT3, FOS, FYN, JUN, NCF2, NFKBIA, NOX1, SOCS3, TGFB2
Has04725, Cholinergic synapse	1.85E-03	8	ADCY8, AKT3, CHAT, CHRNA3, FOS, FYN, GNAO1, PLCB4
Has04670, Leukocyte transendothelial migration	2.45E-03	8	CLDN11, CXCL12, CXCR4, ICAM1, JAM3, NCF2, NOX1, THY1
Has05145, Toxoplasmosis	2.72E-03	8	AKT3, GNAO1, HSPA1A, HSPA1B, LAMA1, LY96, NFKBIA, TGFB2
Has04064, NF- $\kappa$ B signaling pathway	3.14E-03	7	CXCL12, CXCL2, ICAM1, LY96, NFKBIA, PIAS4, TNFAIP3

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KEGG, Kyoto Encyclopedia of Genes and Genomes