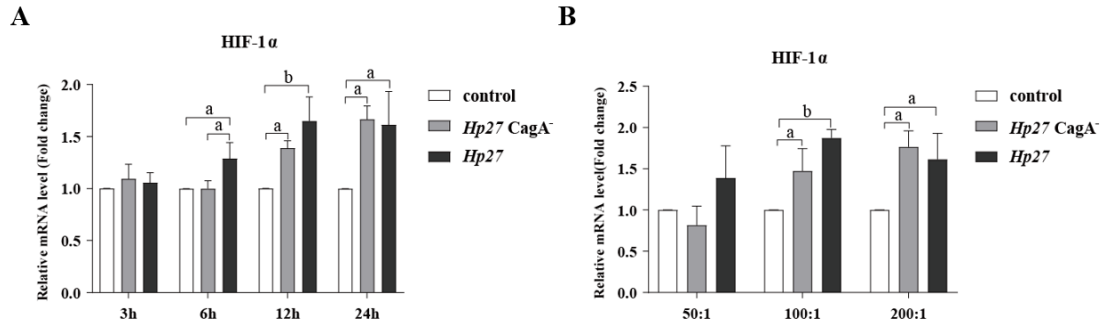


Supplementary Materials



Supplementary Figure 1 Detection of the hypoxia-inducible factor-1 α mRNA levels in different infection times and corresponding multiplicity of infection by RT-qPCR in GES-1 cells infected with *Hp27* or *Hp27 cagA*-strains, respectively. A: Different infection times; B: Corresponding multiplicity of infection. ^a $P < 0.05$, ^b $P < 0.01$, compared with each other group. HIF-1 α : Hypoxia-inducible factor-1 α .

Supplementary Table 1 Sequences of RT-qPCR primers

Gene	Primer	Sequence (5'-3')
HIF-1 α	Forward	CGCAAGTCCTCAAAGCACAGTTAC
	Reverse	ATTCATCAGTGGTGGCAGTGGTAG
METTL14	Forward	ACCAAAATCGCCTCCTCCCAAATC
	Reverse	AGCCACCTCTTTCTCCTCGGAAG
β -actin	Forward	CCTGGCACCCAGCACAAT
	Reverse	GGGCCGGACTCGTCATAC

Supplementary Table 2 The primary antibodies information of Western blot

Antibody	Dilution ratio	Manufacturers
HIF-1 α	1:500	R&D Systems
METTL3	1:1000	Proteintech
METTL14	1:1000	Proteintech

FTO	1:1000	Proteintech
YTHDF1	1:1000	Proteintech
YTHDF2	1:1000	Proteintech
YTHDF3	1:1000	Proteintech
YTHDC1	1:1000	Proteintech
p-PI3K	1:2000	Cell Signaling Technology
PI3K	1:5000	Proteintech
p-AKT	1:1000	Cell Signaling Technology
AKT	1:2000	Cell Signaling Technology
N-cadherin	1:1000	Servicebio
ZEB1	1:1000	Proteintech
Vimentin	1:1000	Servicebio
MMP2	1:1000	Proteintech
MMP9	1:1000	Proteintech
β -actin	1:1000	Proteintech

Supplementary Table 3 The related sequences of overexpression and siRNA

Name	Primer	Sequence (5'-3')
OE-METTL14	Forward	CGTTTAAACTTAAGCTTGCCACCATGGATAGC CGCTT
	Reverse	ATATCTGCAGAATTCTTATCGAGGTGGAAAGC CAC
siRNA-NC	sense	GAUGCUGAACAGUGACAAAUCTT
	anti-sense	GAUUUGUCACUGUUCAGCAUCTT
siRNA-METTL14	sense	GCCGUGGACGAGAAAGAAUATT
	anti-sense	UAUUUCUUUCUCGUCCACGGCTT

	sense	GUGAUGAAAGAAUUACCGAAUTT
siRNA-HIF-1 α	anti-sens	AUUCGGUAAUUCUUUCAUCACTT
	e	
