

## **The *H19-PEG10/IGF2BP3* axis promotes gastric cancer progression in patients with high lymph node ratios**

### **SUPPLEMENTARY MATERIALS**

**Supplementary Table 1: Clinicopathological characteristics and recurrence-free survival or lymph node ratio in pStage IIIc gastric cancer patients from 2000 to 2010**

See Supplementary File 1

**Supplementary Table 2: Clinicopathological characteristics and recurrence-free survival or lymph node ratio in pStage IIIc gastric cancer patients from 2011 to 2015**

See Supplementary File 2

**Supplementary Table 3: Clinicopathological characteristics and recurrence-free survival in 39 patients with stage III gastric cancer**

See Supplementary File 3

Supplementary Table 4: PCR sequences of primers and fluorescent probe used in this study

Methods	Gene	Forward primer sequence (5' to 3')	fluorescent probe (5' to 3')	Reverse primer sequence (5' to 3')
RT-PCR/qRT-PCR	H19	aaagacaccatcggaacagc	acatcatcccagagctgagc	agagtcgtggaggctttgaa
RT-PCR/qRT-PCR	PEG10	tgcttctggcaacttcattg	accagctttcatgatggaa	tcaaatgacagcacctctcg
RT-PCR	IGF2BP3	cagttcaaggctcagggaaag		ggtcacgagggacaacaact
RT-PCR	PGA3	ttaccgtcgagggttactgg		tccattgatggtgaagacga
RT-PCR	CD177	ggcctggagtctctcacttg		ccccagtgtgctgtaggt
RT-PCR	CDH1 (E-cadherin)	tcatgagtgtcccccggtat		tcttgaagcgattgccccat
RT-PCR	EGFR	cgctaccttgctattca		tgcactcagagagctcagga
RT-PCR	Zeb1	aacagttggtttggtgt		cttcaccatacaacaaggt
RT-PCR	Snail1	gttfacctccagcagccct		gagcctttcccactgtctc
RT-PCR/qRT-PCR	$\beta$ -actin	tcaccacactgtgccctctacga	ggacttcgagcaagagatgg	cagcgggaaccgctcattgccaatgg

\*1 : RT-PCR was done at 95°C for 3 min followed by 27 cycles at 95°C for 1 min, 60°C for 1 min, 72°C for 1 min, and final extension at 72°C for 10 min 1 $\mu$ l dNTP mixture, 1.5 $\mu$ l MgCl<sub>2</sub>, 0.2 $\mu$ mol/l each primer and 0.2 $\mu$ l Platinum Taq DNA polymerase.

\*2 : qRT-PCR was done at 95°C for 3 min followed by 40 cycles at 95°C for 20 sec, 60°C for 30 sec, and 72°C for 30 sec, in a 25 $\mu$ l reaction volume containing 200nmol/l fluorescein probe and 12.5 $\mu$ l iQ<sup>TM</sup> supermix (Bio-Rad, Hercules, CA) in triplicate on the iCycler iQ<sup>TM</sup> Real-Time PCR Detection system (Bio-Rad, Hercules, CA).