

SUPPLEMENTARY TABLES

Supplementary Table 1. Correlations between the proportion of circGRAMD1B and clinicopathological parameters in 60 GC patients.

Characteristics	No. of patients	circGRAMD1B		P value
		Low	High	
All cases	60	39	21	
Gender				
Male	44	30	14	0.392
Female	16	9	7	
Age				
≤65	39	26	13	0.712
>65	21	13	8	
Tumor size (cm)				
≤5	31	16	15	0.025*
>5	29	23	6	
Cancer location				
Upper	18	11	7	0.832
Middle	16	10	6	
Lower	26	18	8	
Differentiation grade				
Well-moderate	32	19	11	0.940
Poor-differentiation	28	18	10	
Carbohydrate antigen 19-9				
Negative	25	14	11	0.217
Positive	35	25	10	
T stage				
T1-T2	30	15	15	0.015*
T3-T4	30	24	6	
Lymph node status				
Negative	28	17	11	0.515
Positive	32	22	10	
Distant metastasis				
M0	48	29	19	0.185
M1	12	10	2	
TNM stage				
I-II	32	18	14	0.129
III-IV	28	21	7	

The TNM Staging System is based on the tumor (T), the extent of spread to the lymph nodes (N), and the presence of metastasis (M); *P < 0.05.

Supplementary Table 2. Primers, Probes, and siRNA information.

Primers/Probes	Sequence
GAPDH F	5'-CTTTGGTATCGTGGAAGGACTC-3'
GAPDH R	5'-GTAGAGGCAGGGATGATGTTCT-3'
circGRAMD1B F	5'- gcactgattcagaaaaggtgta -3'
circGRAMD1B R	5'- cctgaaggagaatgtctctt-3'
GRAMD1B F	5'-CTACACAATCAATCGCTACACG-3'
GRAMD1B R	5'-CATCTCAGCCAAATAAGTGCTC-3'
PTEN F	5'-GACCAGAGACAAAAAGGGAGTA-3'
PTEN R	5'-ACAAACTGAGGATTGCAAGTTC-3'
P21 F	5'-GATGGAACCTCGACTTTGTCCAC-3'
P21 R	5'-GTCCACATGGTCTTCTCTG-3'
Ki-67 F	5'-CAGACATCAGGAGAGACTACAC-3'
Ki-67 R	5'-GTTAGACTTGCTGCTGAGTCTA-3'
PCNA F	5'-TAATTCCTGTGCAAAAGACGG-3'
PCNA R	5'-AAGAAGTTCAGGTACCTCAGTG-3'
E-cadherin F	5'-AGTCACTGACACCAACGATAAT-3'
E-cadherin R	5'-ATCGTTGTTCACTGGATTTGTG-3'
Vimentin F	5'-GGACCAGCTAACCAACGACA-3'
Vimentin R	5'-AAGGTCAAGACGTGCCAGAG-3'
siRNA1-circGRAMD1B	5'-GAAAAGGTGTTAAGCCCCACC-3'
	5'-AGGCCACCTAACGCTTAAGAG-3'
siRNA2-circGRAMD1B	5'-AGAAAAGGTGTTAAGCCCCAC-3'
	5'-GAACCGACCAGCTTAAGATGA-3'
FISH-circGRAMD1B probe	5'-TGGGGCTTAACACCTTTTCTGAATCAGTGC-3'
FISH-miR-130a-3p probe	5'-ATGCCCTTTTAACATTGCACTG-3'
Pull down-circGRAMD1B probe	5'-TTGTAGGTGGGGCTTAACACCTTTTCTGAATCAGTGCAAA-3'