Supplemental Information

Long Noncoding RNA UCA1 Regulates PRL-3 Expression by Sponging MicroRNA-495 to Promote the Progression of Gastric Cancer

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Supplemental Figure 1. UCA1 up-regulates PRL-3 expression to promote gastric cancer cell proliferation, invasion and metastasis by sponging miR-495, as reflected by inhibited Caspase 3 and enhanced Bcl-2 and MMP-2/7.
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**Supplemental Table 1** The relationship between the level of UCA1 and the clinicopathological characteristics of GC patients

| Characteristics          | N (%)   | Average fold change ± SD | p    |
|--------------------------|---------|--------------------------|------|
| Gender                   |         |                          | 0.845|
| Female                   | 23 (27.06) | 1.80 ± 0.23              |      |
| Male                     | 62 (72.94) | 1.79 ± 0.20              |      |
| Age (years)              |         |                          | 0.514|
| < 50                     | 34 (40.00) | 1.81 ± 0.23              |      |
| ≥ 50                     | 51 (60.00) | 1.78 ± 0.19              |      |
| Tumor site               |         |                          | 0.619|
| Upper stomach            | 17 (20.00) | 1.75 ± 0.27              |      |
| Middle stomach           | 28 (32.94) | 1.79 ± 0.15              |      |
| Lower stomach            | 40 (47.06) | 1.81 ± 0.22              |      |
| Tumor size               |         |                          | 0.423|
| < 5 cm                   | 58 (68.24) | 1.78 ± 0.14              |      |
| ≥ 5 cm                   | 27 (31.76) | 1.82 ± 0.32              |      |
| Clinical stage           |         |                          | < 0.001|
| I-II                     | 51(60.00) | 1.68±0.16                |      |
| IIIA                     | 34(40.00) | 1.95±0.17                |      |
| Lymph node metastasis    |         |                          | < 0.001|
| N0-N1                    | 47 (55.29) | 1.70 ± 0.15              |      |
| N2-N3                    | 38 (44.71) | 1.90 ± 0.22              |      |
| Tumor infiltration depth |         |                          | < 0.001|
| T1~T2                    | 37 (43.53) | 1.69 ± 0.18              |      |
| T3~T4                    | 48 (56.47) | 1.87 ± 0.20              |      |

Note: N, number; SD, standard deviation.
### Supplemental Table 2: The primer sequences for RT-qPCR

| Name    | Sequence (5’-3’)                                                                 |
|---------|----------------------------------------------------------------------------------|
| UCA1    | CTCTCCATTGGGTTTCACCATTTC                                                         |
|         | GCGGCAGGTCTTTAAGAGATGAG                                                         |
|         | TCTACCGGTCGCTCTGCTCAGTGCTAGGCC                                                   |
| miR-495 | TCTGAATTTCAGGGGTCCCGTGCGGGGATG                                                  |
|         | CTCGCTTCGGCAGCACA                                                                |
|         | AACGCTTCACGAATTTGCGT                                                            |
|         | GTTCGCTGGGGGTATGTGTGTTGAGAGC                                                   |
| U6      | TAGCTGAATTGAGCTGGTTTTTCCCTG                                                     |
| Bcl-2   | CAGTGAGGCCCAGCTTTC                                                              |
|         | ATGAAACCAGGACCCCATCTT                                                            |
| Caspase3| GGCAGCACCACCATGTCACCCT                                                          |
| MMP-7   | AGGGGCGGACTCGTACACT                                                             |
| MMP-2   | TTGATGGCATTGAGGTGCTAGT                                                          |
| GAPDH   | CGTCTTACCACCACAGGAGGA                                                          |
|         | CGGCCATCACGGCCACAGCT                                                              |

Notes: RT-qPCR, reverse transcription quantitative polymerase chain reaction; F, forward; R, reverse.