**Supplementary Table 1** Clinicopathological information of patients with gastric cancer

| Clinicopathological characteristics | Number (n) | Proportion  |
|------------------------------------|------------|-------------|
| Gender                             |            |             |
| Female                             | 101        | 33.6667     |
| Male                               | 199        | 66.3333     |
| Age                                |            |             |
| <60                                | 106        | 35.3333     |
| >=60                               | 194        | 64.6667     |
| T stage                            |            |             |
| T1                                 | 2          | 0.6667      |
| T2                                 | 186        | 62.0000     |
| T3                                 | 91         | 30.3333     |
| T4                                 | 21         | 7.0000      |
| N stage                            |            |             |
| N0                                 | 38         | 12.6667     |
| N1                                 | 131        | 43.6666     |
| N2                                 | 80         | 26.6667     |
| N3                                 | 51         | 17.0000     |
| M stage                            |            |             |
| M0                                 | 273        | 91.0000     |
| M1                                 | 27         | 9.0000      |
| AJCC stage                         |            |             |
| Stage I                            | 30         | 10.0000     |
| Stage II                           | 97         | 32.3333     |
| Stage III                          | 96         | 32.0000     |
| Stage IV                           | 77         | 25.6667     |
| Lauren classification              |            |             |
| Diffuse                            | 135        | 45.0000     |
| Intestinal                         | 146        | 48.6667     |
| Mixed                              | 19         | 6.3333      |

**Supplementary Table 2** Hub RBPs primer sequence

| Gene ID  | Forward primer sequence (5' - 3') | Reverse Primer sequence (5' - 3') |
|----------|------------------------------------|----------------------------------|
| DAZ1     | AAGCCGTGGAATGGTAGCAA                | AGCCATTGAAAGAAGGGCCA              |
| KIAA0101 | GTGCTTTGTTCTTCACCTCTCG              | CTTTTTGGCCACTTGGGAGTTGG           |
| WIPF3    | CTCAGGGAAAGCCATTTGGT               | GAAGCCCCCTTTTGTCAAC              |
| COL5A2   | AGCTGGGACCATCCCAAAAG               | CCACTGACATGACAAAAAGCGT           |
| RBPMS2   | CTGAACGGTATTCGGTTTGTAGTC           | GTCCCCGTGCGATGAAGTG              |
| NOVA1    | TACTGAGCGAGTGTTGGTTTGTAGCT         | GTCTGGGGTTGTAATGCT               |