**Table S1.** Characteristics of TCGA colorectal cancer cohort and GEO dataset.

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|  |  | **TCGA** | **GEO** |
| **Age(years)** |  | 66.20±12.85 | 65.55±12.69 |
| **Gender** | Female | 281 | 301 |
| Male | 315 | 419 |
| **Stage** | Stage Ⅰ | 107 | 31 |
| Stage Ⅱ | 223 | 311 |
| Stage Ⅲ | 177 | 309 |
| Stage Ⅳ | 89 | 69 |
| **T (Tumor)** | T1 | 18 | 11 |
| T2 | 105 | 48 |
| T3 | 407 | 535 |
| T4 | 66 | 126 |
| **N (Lymph Node)** | N0 | 354 | 356 |
| N1 | 150 | 261 |
| N2 | 116 | 97 |
| N3 | 0 | 6 |
| **M (Metastasis)** | M0 | 455 | 650 |
| M1 | 87 | 70 |
| Mx | 54 | 68 |