**Supplementary table 1.** Detailed information about GEO data were showed in this study.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Dataset ID** | **Country** | **Number of samples** | **GPL ID** | **Number of rows per platform** |
| GSE41804GSE45267GSE84402 | JapanTaiwanChina | 20N 20T41N 46T14N 14T | GPL570GPL570GPL570 | 546755467554675 |
| GSE107170 | Italy | 80N 39T | GPL570 | 54675 |
| GSE121248 | Singapore | 37N 70T | GPL570 | 54675 |

Note: GSE, Gene Expression Omnibus Series; GPL, Gene Expression Omnibus Platform; T, tumor samples; N, paracancerous normal samples.