|  |  |  |  |
| --- | --- | --- | --- |
|  | GSE13601(57) | GSE34105(78) | GSE34106(43) |
| Total samples | 57 | 78 | 43 |
| TUMOR | 31 | 62 | 28 |
| NORMAL | 26 | 16 | 15 |
| Platform  | GPL8300 Affymetrix Human Genome U95 Version 2 Array | GPL14951Illumina HumanHT-12 WG-DASL V4.0 R2 expression beadchip | GPL14951Illumina HumanHT-12 WG-DASL V4.0 R2 expression beadchip |

**Supplementary table 1**

**Total samples/Platform information of the three datasets(GSE13601(57), GSE34105(78), GSE34106(43)).**

|  |  |
| --- | --- |
|  | KEGG pathway |
| hsa04061 | Viral protein interaction with cytokine and cytokine receptor |
| Hsa05340 | Primary immunodeficiency |
| Hsa04657 | IL-17 signaling pathway |
| Hsa05323 | Rheumatoid arthritis |
| Hsa04060 | Cytokine-cytokine receptor interaction |
| Hsa04650 | Natural killer cell mediated cytotoxicity |

**Supplementary table 2**

**The KEGG correspondence of the first six up-regulated pathways.**