Supplementary Table 1. Summary of download gene expression data sets of Bladder cancer

|                           | GEO                        | TCGA                      |
|---------------------------|----------------------------|---------------------------|
| **Accession No.**         | GSE13507                   | E-MTAB-1803               |
| **No. of patients**       | 256                        | 170                       |
| **Assessable cases**      | 165                        | 85                        |
| **Date of study**         | NA                         | NA                        |
| **Platforms**             | GPL6102                    | GPL570                    |
| **Country**               | South Korea                | USA                       |
| **Gender**                | Y                          | Y                         |
| **Age at diagnosis**      | 66(24-88)                  | 69(44-89)                 |
| **Grade**                 | Y                          | Y                         |
| **Tumor size**            | NA                         | NA                        |
| **TNM stage**             | Y                          | NA                        |
| **Tumor stage**           | Y                          | Y                         |
| **Lymph node**            | Y                          | NA                        |
| **Metas**                 | Y                          | Y                         |
| **Tobacco smoking history**| NA                         | NA                        |
| **Invasiveness**          | Y                          | NA                        |
| **Progression**           | Y                          | NA                        |
| **Recurrence**            | Y                          | NA                        |
| **OS months (Range)**     | 1.03-136.97                | 0.39-175.50               |
| **Recurrence months (Range)** | 1.03-136.97                | 0.39-175.50               |
| **Progression months (Range)** | 1.03-136.97                | 0.39-175.50               |

* Platforms: GPL6102: Illumina human-6 v2.0 expression bead chip; GPL570:[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array