**Table S4 The *P* values between TNP and other five expression profile-based methods for WAFmax and WAAUPR**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Measure** | **GO aspect** | **(TNP, MR)** | **(TNP, PCC)** | **(TNP, MLC)** | **(TNP, SRC)** | **(TNP, ED)** |
| WAFmax | MF | 8.60×10-08 | 1.70×10-10 | 6.56×10-09 | 3.19×10-09 | 8.25×10-11 |
| BP | 6.11×10-11 | 1.33×10-13 | 1.71×10-12 | 5.65×10-13 | 8.64×10-14 |
| CC | 9.24×10-09 | 3.67×10-11 | 1.21×10-09 | 3.85×10-10 | 5.60×10-11 |
| WAAUPR | MF | 5.13×10-10 | 1.39×10-14 | 1.14×10-11 | 3.25×10-13 | 1.04×10-14 |
| BP | 3.04×10-09 | 4.43×10-13 | 7.37×10-12 | 2.61×10-12 | 6.69×10-13 |
| CC | 1.82×10-13 | 3.54×10-15 | 1.00×10-13 | 1.00×10-13 | 6.58×10-15 |