**Supplement table 2：Top 10 of molecular function enrichment**

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| **Term ID** | **Term Tescription** | **-logFDR** |
| GO:0008134 | transcription factor binding | 5.782516 |
| GO:0001228 | DNA-binding transcription activator activity, RNA polymerase II-specific | 4.133713 |
| GO:0005515 | protein binding | 4.108463 |
| GO:0019899 | enzyme binding | 3.958607 |
| GO:1990837 | sequence-specific double-stranded DNA binding | 3.638272 |
| GO:0000977 | RNA polymerase II regulatory region sequence-specific DNA binding | 3.387216 |
| GO:0031625 | ubiquitin protein ligase binding | 3.387216 |
| GO:0043565 | sequence-specific DNA binding | 3.387216 |
| GO:0044212 | transcription regulatory region DNA binding | 3.387216 |
| GO:0004705 | JUN kinase activity | 3.267606 |