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| **Supplementary Table 1 Differentially expressed genes** | | | | | |
| **Gene Symbol** | **Ensembl ID** | **GSE15372** | **GSE51373** | **GSE114206** | **Meta-Analysis** |
|  |  | log2FC (adj.pval) | log2FC (p.value) | log2FC (p.value) | Direction Consistency |
| CCDC80 | ENSG00000162572 | 1.214 (<0.001) | 1.399 (0.031) | 2.746(0.006) | ↑↑↑ (3/3) |
| ACTA2 | ENSG00000107796 | 2.085 (<0.001) | 1.162 (0.036) | 1.969 (0.011) | ↑↑↑ (3/3) |
| CNRIP1 | ENSG00000165606 | 2.475 (<0.001) | 1.251 (0.007) | 1.288 (0.0280) | ↑↑↑ (3/3) |
| HOXA2 | ENSG00000105996 | 1.270 (<0.001) | 1.387 (0.049) | 1.398 (0.0432) | ↑↑↑ (3/3) |
| GRK5 | ENSG00000198053 | 1.451 (<0.001) | 1.458 (0.000) | 1.003 (0.0418) | ↑↑↑ (3/3) |
| BCL11A | ENSG00000119866 | -3.833 (<0.001) | -1.472 (0.038) | -2.321 (0.005) | ↓↓↓ (3/3) |

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| **Supplementary Table 2 Baseline clinicopathological data** | | | | | | |
| Patient ID | Age  （year） | Histological type | Stage | Grade | Progression-free survival ( months ) | Platinum sensitivity status |
| 1 | 67 | Serous | III | G1 | 14 | Platinum-sensitive |
| 2 | 63 | Serous | IV | G2 | 8.5 | Platinum-sensitive |
| 3 | 59 | Serous | IV | G2 | 9 | Platinum-sensitive |
| 4 | 55 | Serous | III | G2 | 11.5 | Platinum-sensitive |
| 5 | 62 | Serous | III | G2 | 4.3 | Platinum-resistant |
| 6 | 64 | Serous | IV | G2 | 4.7 | Platinum-resistant |