Table S3. The association between nuclear SMAD4 expression and clinicopathological parameters in three subtypes of RCC

| Patient and tumor characteristics | Total No. Cases | Nuclear \( H \)-Score (N %) | \(* P\) value |
|----------------------------------|-----------------|-----------------------------|--------------|
|                                  | Low (\( \leq 200\)) | High (200<) | |
| Age (y)                          |                 |                       |              |
| \( \leq 55.0\)                   | 102(48.8)       | 93(44.5)            | 9(4.3)       | 0.046 |
| >55.0                            | 107(51.2)       | 87(41.6)            | 20(9.6)      |
| Sex                              |                 |                       |              |
| Male                             | 180(67.5)       | 120(57.4)           | 60(28.7)     | 0.671 |
| Female                           | 29(32.5)        | 21(10.0)            | 8(3.8)       |
| RCC subtypes                     |                 |                       |              |
| ccRCC                            | 158(75.6)       | 132(63.2)           | 26(12.4)     | 0.034 |
| ChRCC                            | 17(8.1)         | 17(8.1)             | 0(0.0)       |
| pRCC                             | 34(16.3)        | 31(14.8)            | 3(1.4)       |
| Tumor size(cm)                   |                 |                       |              |
| <4                               | 43(20.6)        | 33(15.8)            | 10(4.8)      | 0.155 |
| 4-7                              | 72(34.4)        | 65(31.3)            | 7(3.3)       |
| 7-10                             | 50(23.9)        | 42(20.1)            | 8(3.8)       |
| >10                              | 44(21.1)        | 40(19.1)            | 4(1.9)       |
| Tumor Stage                      |                 |                       |              |
| I/II                             | 85(81.8)        | 71(34.0)            | 14(6.7)      | 0.369 |
| III/IV                           | 124(18.2)       | 109(52.2)           | 15(7.2)      |
| Nuclear Grade                    |                 |                       |              |
| I/II                             | 116(60.4)       | 97(50.5)            | 19(9.9)      | 0.542 |
| III/IV                           | 76(39.6)        | 66(34.4)            | 10(5.2)      |
| Renal pelvis involvement         |                 |                       |              |
| Yes                              | 188(90.0)       | 165(78.9)           | 23(11.0)     | 0.04  |
| No                               | 21(10.0)        | 15(7.2)             | 6(2.9)       |
Significances are based on Pearson Chi-square test.
Values in bold are statistically significant.
ccRCC indicates clear cell Renal Cell Carcinoma; ChRCC, chromophobic Renal Cell Carcinoma and pRCC, papillary Renal Cell Carcinoma.

H-score, histological score

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
|       |       |       |       |       |

* Significances are based on Pearson Chi-square test.