

**S1 Table.** Cox regression analysis of disease-free survival in cervical cancer (n=351)

| Variable                                   | No. (%)    | HR   | 95% CI    | p-value |
|--|------------|------|-----------|---------|
| <b>Age</b>                                 | 351 (100)  | 0.99 | 0.97-1.02 | 0.859   |
| <b>FIGO stage</b>                          |            |      |           |         |
| IA1-IB1                                    | 242 (68.9) | 1    |           |         |
| IB2-IIA                                    | 109 (31.1) | 2.25 | 1.31-3.87 | 0.003   |
| <b>Cell types</b>                          |            |      |           |         |
| Squamous cell carcinoma                    | 287 (81.8) | 1    |           |         |
| Adenocarcinoma                             | 64 (18.2)  | 1.56 | 1.18-2.07 | 0.002   |
| <b>Tumor size</b>                          |            |      |           |         |
| Tumor diameter ≤ 4cm                       | 262 (74.6) | 1.   |           |         |
| Tumor diameter > 4cm                       | 89 (25.4)  | 1.21 | 1.06-1.37 | 0.041   |
| <b>Lymph node status</b>                   |            |      |           |         |
| Negative                                   | 258 (73.5) | 1    |           |         |
| Positive                                   | 93 (26.5)  | 4.12 | 9.30-7.09 | < 0.001 |
| <b>Lymphovascular space invasion</b>       |            |      |           |         |
| Negative                                   | 204 (58.1) | 1    |           |         |
| Positive                                   | 147 (41.9) | 2.72 | 1.59-4.65 | < 0.001 |
| <b>Parametrial involvement</b>             |            |      |           |         |
| Negative                                   | 311 (88.6) | 1    |           |         |
| Positive                                   | 40 (11.4)  | 2.23 | 1.15-4.34 | 0.018   |
| <b>Vaginal resection margin with tumor</b> |            |      |           |         |
| Negative                                   | 337 (96.0) | 1    |           |         |
| Positive                                   | 14 (4.0)   | 0.91 | 0.22-3.72 | 0.891   |
| <b>Deep stromal invasion</b>               |            |      |           |         |
| Negative                                   | 113 (32.2) | 1    |           |         |
| Positive                                   | 238 (67.8) | 2.73 | 1.29-5.78 | 0.009   |
| <b>V-ATPase expression</b>                 |            |      |           |         |
| Negative                                   | 140 (39.9) | 1    |           |         |
| Positive                                   | 211 (60.1) | 1.17 | 0.68-2.01 | 0.577   |

HR, hazard ratio; CI, confidence interval; FIGO, International Federation of Gynecology and Obstetrics; V-

ATPase, vacuolar-type H<sup>+</sup> ATPase.