

**Table S1** Univariate and multivariate Cox proportional hazards analyses of INTS7 expression and OS for patients with LUAD in TCGA cohort

| Characteristics      | Total (N) | Univariate analysis   |         | Multivariate analysis |         |
|----------------------|-----------|-----------------------|---------|-----------------------|---------|
|                      |           | Hazard ratio (95% CI) | P value | Hazard ratio (95% CI) | P value |
| T stage              | 523       |                       |         |                       |         |
| T1 & T2              | 457       | Reference             |         |                       |         |
| T3 & T4              | 66        | 2.317 (1.591–3.375)   | <0.001  | 1.724 (1.062–2.800)   | 0.028   |
| N stage              | 510       |                       |         |                       |         |
| N0 & N1              | 437       | Reference             |         |                       |         |
| N2 & N3              | 73        | 2.321 (1.631–3.303)   | <0.001  | 1.316 (0.642–2.699)   | 0.453   |
| M stage              | 377       |                       |         |                       |         |
| M0                   | 352       | Reference             |         |                       |         |
| M1                   | 25        | 2.136 (1.248–3.653)   | 0.006   | 1.025 (0.460–2.284)   | 0.952   |
| Age                  | 516       |                       |         |                       |         |
| ≤65                  | 255       | Reference             |         |                       |         |
| >65                  | 261       | 1.223 (0.916–1.635)   | 0.172   |                       |         |
| Gender               | 526       |                       |         |                       |         |
| Female               | 280       | Reference             |         |                       |         |
| Male                 | 246       | 1.070 (0.803–1.426)   | 0.642   |                       |         |
| Pathologic stage     | 518       |                       |         |                       |         |
| Stage I & Stage II   | 411       | Reference             |         |                       |         |
| Stage III & Stage IV | 107       | 2.664 (1.960–3.621)   | <0.001  | 1.915 (0.883–4.152)   | 0.100   |
| Smoker               | 512       |                       |         |                       |         |
| No                   | 72        | Reference             |         |                       |         |
| Yes                  | 440       | 0.894 (0.592–1.348)   | 0.591   |                       |         |
| INTS7                | 526       |                       |         |                       |         |
| Low                  | 260       | Reference             |         |                       |         |
| High                 | 266       | 1.496 (1.120–1.999)   | 0.006   | 1.467 (1.045–2.058)   | 0.027   |

INTS7, integrator complex subunit 7; OS, overall survival; LUAD, lung adenocarcinoma; TCGA, The Cancer Genome Atlas.