

**Supplementary****Table S1** Univariate cox regression analysis for DRRGs

Gene	HR (95% CI)	P value
<i>UPF3B</i>	1.054 (1.013, 1.096)	0.009
<i>NT5C3A</i>	1.03 (1.004, 1.056)	0.02
<i>TAF9</i>	1.073 (1.025, 1.123)	0.002
<i>BCAP31</i>	1.021 (1.011, 1.031)	<0.001
<i>NUDT21</i>	1.037 (1.001, 1.075)	0.047

DRRGs, DNA repair-related genes; HR, hazard ratio; CI, confidence interval.

**Table S2** Stepwise multivariate Cox regression analysis for DRRGs

Gene	Coefficient	HR (95% CI)	P value
<i>NT5C3A</i>	0.0346	1.035 (1.007, 1.064)	0.01
<i>TAF9</i>	0.0454	1.046 (0.995, 1.101)	0.08
<i>BCAP31</i>	0.0192	1.019 (1.008, 1.031)	<0.001
<i>NUDT21</i>	0.0486	1.050 (1.011, 1.090)	0.01

DRRGs, DNA repair-related genes; HR, hazard ratio; CI, confidence interval.