| Gene     | pvalue   | Hazard ratio          |
|----------|----------|-----------------------|
| BRAP     | <0.001   | 2.395 (1.438–3.990)   |
| RNF220   | <0.001   | 2.295 (1.548–3.401)   |
| RNF8     | 0.002    | 1.801 (1.238–2.619)   |
| RNF10    | 0.003    | 1.916 (1.243–2.953)   |
| RNF25    | 0.001    | 1.848 (1.267–2.695)   |
| RNF216   | 0.004    | 1.670 (1.179–2.365)   |
| TRIM25   | 0.010    | 1.474 (1.099–1.977)   |
| RNF7     | 0.002    | 1.789 (1.236–2.589)   |
| RNF214   | 0.006    | 1.846 (1.192–2.859)   |
| RNF34    | <0.001   | 1.859 (1.338–2.583)   |
| BMI1     | <0.001   | 1.732 (1.281–2.341)   |
| RNF216P1 | 0.002    | 1.834 (1.256–2.678)   |
| DTX2     | 0.009    | 1.631 (1.132–2.349)   |
| RNF115   | 0.001    | 1.830 (1.265–2.649)   |
| RNF26    | 0.004    | 1.502 (1.142–1.977)   |
| RNF20    | 0.006    | 1.561 (1.134–2.150)   |
| TRAIP    | <0.001   | 1.647 (1.275–2.127)   |
| TRIM28   | <0.001   | 1.538 (1.220–1.940)   |
| RNF44    | 0.007    | 1.413 (1.099–1.816)   |
| RFWD3    | 0.005    | 1.579 (1.151–2.166)   |
| RNF114   | 0.005    | 1.723 (1.174–2.530)   |
| PJA1     | <0.001   | 1.591 (1.229–2.060)   |
| RNF2     | <0.001   | 2.039 (1.501–2.771)   |
| RNF157   | 0.004    | 1.274 (1.083–1.499)   |
| UHRF1    | <0.001   | 1.408 (1.151–1.722)   |
| MID1     | 0.007    | 1.464 (1.109–1.931)   |
| MARCHF7  | 0.008    | 1.598 (1.129–2.263)   |
| RNF145   | <0.001   | 1.597 (1.294–1.970)   |
| RNF19B   | <0.001   | 1.652 (1.295–2.109)   |

Hazard ratio