Supplementary Table 3: Associations with overall survival and clinicopathologic characteristics and gene expression in TCGA-TNBC cohort using univariate Cox regression.

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| --- | --- | --- | --- | --- |
| Clinicopathologic variable  or gene expression | HR (95% CI) |  | | *p-*value |
| T stage（T3+T4 vs T1+T2） | 6.11(2.56-14.58) | |  | ＜0.001 |
| M stage （M1 vs M0） | 1.24(0.42-3.67) | |  | 0.692 |
| N stage (N2+N3 vs N0+N1) | 7.07(3.08-16.22) | |  | ＜0.001 |
| Age （≥60 vs＜60） | 1.03(0.46-2.34) | |  | 0.936 |
| Race (non-white vs white) | 0.45(0.2-1.02) | |  | 0.055 |
| SCGB1D2 (high vs low) | 1.86(0.79-4.4) | |  | 0.159 |
| ANKRD30A (high vs low) | 1.02(0.45-2.33) | |  | 0.965 |
| SCGB2A2 (high vs low) | 1.73(0.75-4.02) | |  | 0.200 |
| PIGR (high vs low) | 0.92(0.41-2.09) | |  | 0.844 |
| THSD4 (high vs low) | 0.74(0.33-1.66) | |  | 0.468 |
| CAPN8 (high vs low) | 1.26(0.56-2.83) | |  | 0.583 |
| COL4A6 (high vs low) | 0.69(0.3-1.58) | |  | 0.385 |
| CX3CR1 (high vs low) | 1.1(0.48-2.52) | |  | 0.823 |
| AFF3 (high vs low) | 0.39(0.16-0.9) | |  | 0.028 |
| ERBB4 (high vs low) | 0.81(0.35-1.85) | |  | 0.616 |
| IL20RA (high vs low) | 0.66(0.29-1.51) | |  | 0.320 |
| NAV3 (high vs low) | 1.37(0.6-3.14) | |  | 0.451 |
| AK5 (high vs low) | 1.18(0.53-2.63) | |  | 0.693 |
| AGR3 (high vs low) | 0.59(0.26-1.36) | |  | 0.219 |
| MLPH (high vs low) | 1.59(0.7-3.66) | |  | 0.271 |
| PGR (high vs low) | 1.58(0.68-3.65) | |  | 0.284 |
| INPP4B (high vs low) | 0.7(0.3-1.63) | |  | 0.408 |
| CXCL14 (high vs low) | 0.97(0.43-2.21) | |  | 0.947 |
| FOXA1 (high vs low) | 0.9(0.39-2.09) | |  | 0.805 |
| GATA3 (high vs low) | 0.74(0.33-1.65) | |  | 0.455 |
| AR (high vs low) | 0.69(0.3-1.55) | |  | 0.365 |
| TPRG1 (high vs low) | 1.24(0.54-2.82) | |  | 0.609 |
| DACH1 (high vs low) | 1.33(0.58-3.04) | |  | 0.494 |
| TBC1D9 (high vs low) | 0.92(0.4-2.09) | |  | 0.840 |
| TFF3 (high vs low) | 1.42(0.63-3.19) | |  | 0.400 |
| UBXN10 (high vs low) | 1.8(0.77-4.22) | |  | 0.178 |
| NOSTRIN (high vs low) | 0.63(0.27-1.46) | |  | 0.284 |
| SEMA3C (high vs low) | 0.69(0.31-1.55) | |  | 0.366 |
| GREB1 (high vs low) | 0.63(0.28-1.42) | |  | 0.268 |
| IGF1 (high vs low) | 1.79(0.76-4.23) | |  | 0.182 |
| CYP4B1 (high vs low) | 1.24(0.54-2.83) | |  | 0.609 |
| SCNN1A (high vs low) | 0.83(0.37-1.88) | |  | 0.655 |
| STEAP2 (high vs low) | 0.66(0.29-1.48) | |  | 0.311 |
| Clinicopathologic variable  or gene expression | HR (95% CI) | |  | *p-*value |
| SIDT1 (high vs low) | 0.74(0.33-1.68) | |  | 0.475 |
| AGTR1 (high vs low) | 1.57(0.68-3.61) | |  | 0.287 |
| FBP1 (high vs low) | 0.74(0.32-1.72) | |  | 0.488 |
| SLC40A1 (high vs low) | 0.69(0.3-1.61) | |  | 0.396 |
| CENPA (high vs low) | 0.88(0.39-1.97) | |  | 0.755 |
| TPX2 (high vs low) | 0.32(0.13-0.81) | |  | 0.016 |
| BIRC5 (high vs low) | 0.79(0.35-1.79) | |  | 0.572 |
| CENPF (high vs low) | 0.44(0.19-1.01) | |  | 0.053 |
| KIF18B (high vs low) | 0.44(0.19-1.04) | |  | 0.061 |
| ANLN (high vs low) | 0.81(0.35-1.84) | |  | 0.607 |
| ASPM (high vs low) | 0.36(0.15-0.85) | |  | 0.020 |
| SOX11 (high vs low) | 0.79(0.35-1.8) | |  | 0.578 |
| DEPDC1 (high vs low) | 0.37(0.15-0.89) | |  | 0.026 |
| NMU (high vs low) | 0.64(0.28-1.47) | |  | 0.297 |
| NDC80 (high vs low) | 0.43(0.18-1.04) | |  | 0.062 |
| FAM83D (high vs low) | 0.8(0.36-1.78) | |  | 0.580 |
| MELK (high vs low) | 0.52(0.23-1.18) | |  | 0.116 |
| BUB1 (high vs low) | 0.33(0.13-0.8) | |  | 0.014 |
| HJURP (high vs low) | 0.68(0.3-1.54) | |  | 0.351 |
| NUF2 (high vs low) | 0.3(0.12-0.76) | |  | 0.011 |
| MMP1 (high vs low) | 0.48(0.2-1.17) | |  | 0.106 |
| TUBB3 (high vs low) | 1.09(0.48-2.46) | |  | 0.844 |
| KIF14 (high vs low) | 0.49(0.21-1.11) | |  | 0.087 |
| KIF20A (high vs low) | 0.87(0.38-1.98) | |  | 0.731 |
| CDC25A (high vs low) | 0.79(0.35-1.8) | |  | 0.582 |
| CCNA2 (high vs low) | 0.64(0.28-1.46) | |  | 0.288 |
| MCM10 (high vs low) | 0.48(0.2-1.11) | |  | 0.084 |
| CHEK1 (high vs low) | 0.8(0.36-1.79) | |  | 0.586 |
| EN1 (high vs low) | 0.75(0.33-1.71) | |  | 0.494 |
| EZH2 (high vs low) | 0.33(0.13-0.85) | |  | 0.021 |
| H1-1 (high vs low) | 0.39(0.16-0.94) | |  | 0.036 |
| EXO1 (high vs low) | 0.37(0.15-0.89) | |  | 0.027 |
| CBS (high vs low) | 0.79(0.35-1.78) | |  | 0.566 |
| PSAT1 (high vs low) | 0.39(0.16-1) | |  | 0.050 |
| B3GNT5 (high vs low) | 0.58(0.25-1.32) | |  | 0.190 |
| UGT8 (high vs low) | 0.67(0.3-1.54) | |  | 0.349 |
| TMSB15B (high vs low) | 1.29(0.57-2.94) | |  | 0.542 |
| CCNB2 (high vs low) | 0.72(0.31-1.66) | |  | 0.437 |
| ANP32E (high vs low) | 0.6(0.26-1.37) | |  | 0.227 |
| MKI67 (high vs low) | 0.86(0.38-1.95) | |  | 0.715 |
| PPP1R14C (high vs low) | 0.75(0.34-1.69) | |  | 0.494 |
| SOX6 (high vs low) | 0.62(0.27-1.42) | |  | 0.261 |