**Table S1. Univariate analysis of prognostic genes in patients with PaCa.**

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| --- | --- | --- | --- | --- |
| **Gene** | **Beta** | **HR** | **95% CI** | **P value** |
| ABCA7 | 0.356 | 1.43 | 1.10-1.85 | 0.008 |
| ACIN1 | 0.400 | 1.49 | 1.17-1.91 | 0.001 |
| ARGLU1 | 0.209 | 1.23 | 1.06-1.43 | 0.005 |
| ARHGEF35 | 0.353 | 1.42 | 1.15-1.76 | 0.001 |
| ARL13B | 0.229 | 1.26 | 0.90-1.75 | 0.177 |
| ATXN7 | 0.213 | 1.24 | 0.92-1.66 | 0.154 |
| BATF2 | 0.057 | 1.06 | 0.81-1.39 | 0.676 |
| BIRC3 | 0.010 | 1.01 | 0.79-1.28 | 0.937 |
| C15orf48 | 0.216 | 1.24 | 0.97-1.58 | 0.084 |
| C1orf167 | -0.056 | 0.95 | 0.74-1.21 | 0.662 |
| C20orf96 | 0.276 | 1.32 | 1.10-1.58 | 0.003 |
| C6orf47 | 0.333 | 1.39 | 1.02-1.90 | 0.035 |
| CABIN1 | 0.308 | 1.36 | 1.03-1.79 | 0.030 |
| CACNA2D4 | 0.265 | 1.30 | 0.95-1.79 | 0.103 |
| CASC4 | 0.406 | 1.50 | 1.09-2.06 | 0.012 |
| CBLB | 0.066 | 1.07 | 0.76-1.50 | 0.705 |
| CCDC173 | -0.099 | 0.91 | 0.66-1.25 | 0.544 |
| CCDC88A | 0.329 | 1.39 | 0.98-1.96 | 0.061 |
| CDX2 | 0.319 | 1.38 | 1.00-1.88 | 0.047 |
| CENPT | 0.375 | 1.45 | 1.09-1.94 | 0.010 |
| CXCL11 | 0.145 | 1.16 | 0.96-1.39 | 0.126 |
| CXorf23 | 0.390 | 1.48 | 1.11-1.97 | 0.008 |
| DDX58 | 0.092 | 1.10 | 0.84-1.44 | 0.503 |
| DDX60L | 0.226 | 1.25 | 0.91-1.72 | 0.161 |
| DLGAP4 | 0.154 | 1.17 | 0.82-1.65 | 0.389 |
| DUOXA1 | 0.360 | 1.43 | 1.16-1.77 | 0.001 |
| EBLN3P | -0.005 | 1.00 | 0.71-1.40 | 0.978 |
| ENC1 | 0.176 | 1.19 | 0.89-1.61 | 0.244 |
| EPSTI1 | 0.328 | 1.39 | 1.01-1.92 | 0.046 |
| ETV7 | -0.018 | 0.98 | 0.72-1.33 | 0.911 |
| FBXO38 | 0.304 | 1.35 | 0.99-1.85 | 0.056 |
| FOSL2 | 0.266 | 1.30 | 0.93-1.82 | 0.119 |
| FTSJ3 | 0.658 | 1.93 | 1.46-2.56 | 0.000 |
| GOLIM4 | 0.201 | 1.22 | 0.89-1.68 | 0.220 |
| GUF1 | 0.381 | 1.46 | 1.08-1.99 | 0.014 |
| HERC6 | 0.323 | 1.38 | 1.03-1.86 | 0.034 |
| HLA-A | 0.114 | 1.12 | 0.78-1.61 | 0.536 |
| HLA-B | -0.019 | 0.98 | 0.71-1.35 | 0.907 |
| HLA-C | -0.080 | 0.92 | 0.67-1.28 | 0.629 |
| HLA-H | 0.189 | 1.21 | 0.87-1.68 | 0.263 |
| HSP90AA1 | 0.340 | 1.41 | 1.11-1.77 | 0.004 |
| IER5L | 0.221 | 1.25 | 0.93-1.67 | 0.136 |
| IFI44 | 0.353 | 1.42 | 1.08-1.87 | 0.011 |
| IFI44L | 0.154 | 1.17 | 0.96-1.42 | 0.127 |
| IFIH1 | 0.266 | 1.30 | 0.93-1.83 | 0.126 |
| IFIT1 | 0.081 | 1.08 | 0.88-1.34 | 0.450 |
| IFIT2 | 0.279 | 1.32 | 1.01-1.73 | 0.040 |
| IGFBP5 | 0.387 | 1.47 | 1.14-1.90 | 0.003 |
| IQUB | 0.360 | 1.43 | 1.08-1.89 | 0.012 |
| IRF2BPL | 0.390 | 1.48 | 1.10-1.98 | 0.009 |
| ISG15 | 0.158 | 1.17 | 0.92-1.48 | 0.191 |
| JUN | -0.051 | 0.95 | 0.75-1.21 | 0.677 |
| KDM4A | 0.589 | 1.80 | 1.28-2.54 | 0.001 |
| KLHDC7B | 0.122 | 1.13 | 0.89-1.43 | 0.308 |
| LACC1 | 0.332 | 1.39 | 1.08-1.80 | 0.010 |
| LAMP3 | 0.025 | 1.03 | 0.84-1.26 | 0.808 |
| LOC643802 | 0.261 | 1.30 | 1.09-1.55 | 0.004 |
| LUC7L | 0.272 | 1.31 | 1.07-1.61 | 0.008 |
| MACF1 | 0.275 | 1.32 | 1.01-1.72 | 0.043 |
| MAGI3 | 0.316 | 1.37 | 0.92-2.04 | 0.119 |
| MAP9 | -0.054 | 0.95 | 0.68-1.32 | 0.750 |
| MDFI | 0.303 | 1.35 | 0.98-1.87 | 0.065 |
| MIA2 | 0.226 | 1.25 | 1.00-1.58 | 0.052 |
| MMP14 | 0.415 | 1.51 | 1.20-1.91 | 0.001 |
| MX1 | 0.138 | 1.15 | 0.86-1.53 | 0.344 |
| MX2 | 0.211 | 1.23 | 0.89-1.71 | 0.207 |
| MXD1 | 0.429 | 1.54 | 1.07-2.21 | 0.021 |
| MYNN | -0.269 | 0.76 | 0.58-1.01 | 0.057 |
| NAA16 | 0.449 | 1.57 | 1.12-2.19 | 0.009 |
| NAB1 | 0.169 | 1.18 | 0.83-1.68 | 0.345 |
| NBEAL1 | 0.361 | 1.43 | 1.05-1.96 | 0.024 |
| OAS1 | 0.189 | 1.21 | 0.90-1.62 | 0.206 |
| OAS3 | 0.403 | 1.50 | 1.11-2.01 | 0.008 |
| OS9 | 0.512 | 1.67 | 1.29-2.17 | 0.000 |
| OXSR1 | 0.197 | 1.22 | 0.90-1.64 | 0.194 |
| PARN | 0.498 | 1.64 | 1.21-2.23 | 0.001 |
| PARP12 | 0.450 | 1.57 | 1.05-2.35 | 0.030 |
| PDAP1 | 0.368 | 1.45 | 1.10-1.90 | 0.008 |
| PDZD8 | 0.064 | 1.07 | 0.76-1.50 | 0.712 |
| PLCB4 | -0.009 | 0.99 | 0.76-1.30 | 0.951 |
| PLEKHN1 | 0.209 | 1.23 | 1.05-1.45 | 0.013 |
| PRDM1 | 0.451 | 1.57 | 1.18-2.09 | 0.002 |
| PRELID2 | 0.225 | 1.25 | 0.97-1.62 | 0.091 |
| PSMB9 | -0.029 | 0.97 | 0.73-1.29 | 0.844 |
| PTPRE | 0.269 | 1.31 | 0.95-1.81 | 0.105 |
| R3HDM4 | 0.527 | 1.69 | 1.28-2.24 | 0.000 |
| RASAL2 | 0.276 | 1.32 | 0.91-1.91 | 0.144 |
| RASSF4 | 0.234 | 1.26 | 1.01-1.59 | 0.045 |
| RHBDF2 | 0.212 | 1.24 | 0.91-1.67 | 0.172 |
| RHOBTB1 | 0.354 | 1.43 | 1.12-1.81 | 0.004 |
| RSAD2 | 0.241 | 1.27 | 1.01-1.61 | 0.044 |
| RTP4 | -0.078 | 0.92 | 0.73-1.17 | 0.514 |
| SAMD9 | -0.120 | 0.89 | 0.68-1.15 | 0.366 |
| SAMD9L | -0.052 | 0.95 | 0.73-1.24 | 0.705 |
| SFSWAP | 0.318 | 1.37 | 0.99-1.91 | 0.056 |
| SLC4A7 | 0.351 | 1.42 | 1.04-1.94 | 0.026 |
| SLC5A3 | 0.193 | 1.21 | 0.89-1.65 | 0.218 |
| SMG6 | 0.459 | 1.58 | 1.12-2.23 | 0.008 |
| SRRM1 | 0.358 | 1.43 | 1.01-2.02 | 0.041 |
| SRSF4 | 0.446 | 1.56 | 1.15-2.13 | 0.005 |
| STAT1 | 0.435 | 1.55 | 1.12-2.14 | 0.008 |
| STX2 | 0.308 | 1.36 | 1.03-1.80 | 0.030 |
| SYDE2 | 0.042 | 1.04 | 0.76-1.43 | 0.795 |
| TAP1 | 0.142 | 1.15 | 0.86-1.54 | 0.343 |
| TBX2 | 0.311 | 1.36 | 0.96-1.93 | 0.079 |
| TES | 0.292 | 1.34 | 0.98-1.82 | 0.064 |
| TLCD2 | 0.101 | 1.11 | 0.82-1.48 | 0.503 |
| TLN2 | 0.295 | 1.34 | 1.04-1.73 | 0.023 |
| TRIO | 0.412 | 1.51 | 1.07-2.13 | 0.018 |
| TULP3 | 0.335 | 1.40 | 1.07-1.83 | 0.015 |
| USP18 | 0.222 | 1.25 | 0.94-1.65 | 0.123 |
| VASP | 0.307 | 1.36 | 1.10-1.69 | 0.005 |
| XAF1 | 0.274 | 1.32 | 1.03-1.68 | 0.029 |
| ZBED1 | 0.438 | 1.55 | 1.09-2.21 | 0.016 |
| ZC3H15 | 0.476 | 1.61 | 1.17-2.21 | 0.003 |