**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  |