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| **Supplementary Table 2. Univariate analyses of 303 ARGs for overall survival.** |
| **Gene name** | **Coef** | **Se** | **P** | **HR** | **95%CI low** | **95%CI High** |
| LMNA | -0.845  | 0.223  | <0.001 | 0.429  | 0.277  | 0.665  |
| HSPA1B | -0.844  | 0.224  | <0.001 | 0.430  | 0.277  | 0.666  |
| PTPN1 | -0.780  | 0.221  | <0.001 | 0.458  | 0.297  | 0.706  |
| UCP2 | -0.748  | 0.220  | 0.001  | 0.473  | 0.308  | 0.728  |
| GPX1 | -0.739  | 0.220  | 0.001  | 0.478  | 0.310  | 0.735  |
| SIRT6 | -0.721  | 0.218  | 0.001  | 0.486  | 0.317  | 0.746  |
| BAK1 | -0.708  | 0.218  | 0.001  | 0.493  | 0.321  | 0.756  |
| TERF2 | -0.694  | 0.218  | 0.001  | 0.500  | 0.326  | 0.766  |
| TGFB1 | -0.673  | 0.220  | 0.002  | 0.510  | 0.331  | 0.785  |
| NUDT1 | -0.656  | 0.218  | 0.003  | 0.519  | 0.339  | 0.795  |
| ELN | -0.631  | 0.220  | 0.004  | 0.532  | 0.346  | 0.819  |
| TRAP1 | -0.606  | 0.217  | 0.005  | 0.545  | 0.356  | 0.835  |
| PPP1CA | -0.606  | 0.217  | 0.005  | 0.546  | 0.357  | 0.834  |
| ERCC1 | -0.599  | 0.218  | 0.006  | 0.549  | 0.358  | 0.843  |
| HDAC3 | -0.581  | 0.218  | 0.008  | 0.559  | 0.365  | 0.857  |
| GPX4 | -0.578  | 0.219  | 0.008  | 0.561  | 0.365  | 0.862  |
| GSTP1 | -0.571  | 0.218  | 0.009  | 0.565  | 0.369  | 0.865  |
| STK11 | -0.551  | 0.219  | 0.012  | 0.576  | 0.375  | 0.886  |
| GSK3A | -0.551  | 0.217  | 0.011  | 0.576  | 0.377  | 0.881  |
| SOCS2 | -0.530  | 0.216  | 0.014  | 0.589  | 0.385  | 0.900  |
| SOD1 | -0.521  | 0.217  | 0.016  | 0.594  | 0.388  | 0.908  |
| NFKB2 | -0.510  | 0.217  | 0.019  | 0.600  | 0.393  | 0.918  |
| HSPA1A | -0.506  | 0.218  | 0.020  | 0.603  | 0.393  | 0.924  |
| EMD | -0.498  | 0.216  | 0.021  | 0.608  | 0.398  | 0.928  |
| PRKCD | -0.492  | 0.218  | 0.024  | 0.611  | 0.399  | 0.936  |
| ERCC2 | -0.483  | 0.217  | 0.026  | 0.617  | 0.403  | 0.944  |
| PRDX1 | -0.482  | 0.216  | 0.026  | 0.618  | 0.404  | 0.944  |
| DGAT1 | -0.481  | 0.217  | 0.026  | 0.618  | 0.404  | 0.945  |
| UCP3 | -0.470  | 0.216  | 0.030  | 0.625  | 0.410  | 0.955  |
| SPRTN | -0.460  | 0.219  | 0.036  | 0.631  | 0.411  | 0.971  |
| PTK2B | -0.461  | 0.217  | 0.034  | 0.631  | 0.412  | 0.966  |
| MAP3K5 | -0.458  | 0.218  | 0.035  | 0.633  | 0.413  | 0.969  |
| MT1E | -0.443  | 0.219  | 0.043  | 0.642  | 0.418  | 0.987  |
| GCLM | -0.437  | 0.217  | 0.043  | 0.646  | 0.422  | 0.987  |
| BMI1 | -0.435  | 0.217  | 0.044  | 0.647  | 0.423  | 0.989  |
| IL7 | -0.417  | 0.216  | 0.053  | 0.659  | 0.432  | 1.006  |
| HSF1 | -0.411  | 0.215  | 0.057  | 0.663  | 0.435  | 1.012  |
| ARNTL | -0.410  | 0.217  | 0.059  | 0.664  | 0.434  | 1.016  |
| HDAC1 | -0.407  | 0.216  | 0.059  | 0.665  | 0.436  | 1.016  |
| CEBPB | -0.406  | 0.217  | 0.061  | 0.666  | 0.435  | 1.019  |
| PTK2 | -0.403  | 0.217  | 0.063  | 0.668  | 0.437  | 1.023  |
| PCNA | -0.398  | 0.215  | 0.064  | 0.671  | 0.440  | 1.024  |
| XRCC6 | -0.398  | 0.216  | 0.065  | 0.671  | 0.440  | 1.025  |
| ZMPSTE24 | -0.396  | 0.217  | 0.068  | 0.673  | 0.440  | 1.030  |
| KCNA3 | -0.393  | 0.216  | 0.069  | 0.675  | 0.442  | 1.031  |
| IGF1 | -0.390  | 0.218  | 0.073  | 0.677  | 0.442  | 1.037  |
| FEN1 | -0.384  | 0.216  | 0.075  | 0.681  | 0.446  | 1.039  |
| GH1 | -0.380  | 0.218  | 0.081  | 0.684  | 0.446  | 1.048  |
| PARP1 | -0.376  | 0.216  | 0.082  | 0.687  | 0.450  | 1.048  |
| FGF21 | -0.372  | 0.216  | 0.085  | 0.689  | 0.451  | 1.053  |
| GSR | -0.366  | 0.217  | 0.091  | 0.693  | 0.453  | 1.061  |
| STUB1 | -0.365  | 0.217  | 0.093  | 0.695  | 0.454  | 1.062  |
| HOXC4 | -0.362  | 0.218  | 0.097  | 0.696  | 0.454  | 1.068  |
| GSS | -0.363  | 0.216  | 0.093  | 0.696  | 0.456  | 1.063  |
| PON1 | -0.353  | 0.219  | 0.107  | 0.703  | 0.458  | 1.079  |
| MTOR | -0.350  | 0.215  | 0.104  | 0.705  | 0.462  | 1.074  |
| YWHAZ | -0.349  | 0.217  | 0.107  | 0.706  | 0.462  | 1.079  |
| MED1 | -0.341  | 0.216  | 0.113  | 0.711  | 0.466  | 1.084  |
| HOXB7 | -0.340  | 0.217  | 0.117  | 0.712  | 0.465  | 1.089  |
| AIFM1 | -0.339  | 0.216  | 0.117  | 0.713  | 0.467  | 1.088  |
| CDC42 | -0.331  | 0.216  | 0.124  | 0.718  | 0.471  | 1.095  |
| EPOR | -0.327  | 0.216  | 0.130  | 0.721  | 0.472  | 1.101  |
| SHC1 | -0.324  | 0.218  | 0.136  | 0.723  | 0.472  | 1.108  |
| HSPA8 | -0.321  | 0.216  | 0.136  | 0.725  | 0.475  | 1.107  |
| RB1 | -0.314  | 0.216  | 0.146  | 0.730  | 0.478  | 1.116  |
| PIN1 | -0.309  | 0.216  | 0.152  | 0.734  | 0.481  | 1.121  |
| NFE2L1 | -0.307  | 0.216  | 0.154  | 0.736  | 0.482  | 1.122  |
| SOD2 | -0.304  | 0.216  | 0.160  | 0.738  | 0.483  | 1.128  |
| GRB2 | -0.301  | 0.216  | 0.164  | 0.740  | 0.485  | 1.131  |
| CAT | -0.297  | 0.216  | 0.170  | 0.743  | 0.487  | 1.136  |
| HRAS | -0.296  | 0.215  | 0.170  | 0.744  | 0.488  | 1.135  |
| TXN | -0.290  | 0.215  | 0.177  | 0.748  | 0.491  | 1.140  |
| VCP | -0.288  | 0.216  | 0.181  | 0.750  | 0.491  | 1.144  |
| MIF | -0.284  | 0.215  | 0.186  | 0.752  | 0.494  | 1.147  |
| CTNNB1 | -0.284  | 0.216  | 0.188  | 0.753  | 0.493  | 1.149  |
| NFKBIA | -0.282  | 0.215  | 0.189  | 0.754  | 0.495  | 1.149  |
| EEF2 | -0.278  | 0.215  | 0.196  | 0.757  | 0.496  | 1.155  |
| PPARGC1A | -0.276  | 0.216  | 0.203  | 0.759  | 0.497  | 1.160  |
| BAX | -0.275  | 0.217  | 0.205  | 0.759  | 0.496  | 1.163  |
| DBN1 | -0.270  | 0.215  | 0.209  | 0.763  | 0.501  | 1.164  |
| CDKN2B | -0.270  | 0.216  | 0.210  | 0.763  | 0.500  | 1.164  |
| GCLC | -0.267  | 0.215  | 0.214  | 0.765  | 0.502  | 1.167  |
| NCOR2 | -0.266  | 0.216  | 0.217  | 0.766  | 0.502  | 1.169  |
| APTX | -0.264  | 0.215  | 0.220  | 0.768  | 0.504  | 1.171  |
| ATM | -0.262  | 0.216  | 0.227  | 0.770  | 0.504  | 1.176  |
| SP1 | -0.261  | 0.216  | 0.227  | 0.770  | 0.504  | 1.176  |
| GSK3B | -0.258  | 0.216  | 0.231  | 0.772  | 0.506  | 1.178  |
| MAPK3 | -0.256  | 0.216  | 0.235  | 0.774  | 0.507  | 1.181  |
| FOXO1 | -0.254  | 0.218  | 0.244  | 0.776  | 0.506  | 1.189  |
| ESR1 | -0.251  | 0.216  | 0.244  | 0.778  | 0.509  | 1.187  |
| CACNA1A | -0.249  | 0.217  | 0.251  | 0.780  | 0.510  | 1.193  |
| MXI1 | -0.246  | 0.215  | 0.253  | 0.782  | 0.513  | 1.193  |
| HSP90AA1 | -0.243  | 0.215  | 0.258  | 0.784  | 0.515  | 1.195  |
| BUB3 | -0.237  | 0.215  | 0.270  | 0.789  | 0.518  | 1.203  |
| EPS8 | -0.234  | 0.216  | 0.279  | 0.791  | 0.518  | 1.208  |
| COQ7 | -0.235  | 0.215  | 0.275  | 0.791  | 0.519  | 1.206  |
| AGPAT2 | -0.224  | 0.215  | 0.297  | 0.799  | 0.524  | 1.218  |
| ARHGAP1 | -0.224  | 0.215  | 0.298  | 0.799  | 0.524  | 1.218  |
| HTRA2 | -0.223  | 0.215  | 0.300  | 0.800  | 0.525  | 1.220  |
| SIRT7 | -0.224  | 0.216  | 0.300  | 0.800  | 0.524  | 1.220  |
| NGFR | -0.222  | 0.216  | 0.305  | 0.801  | 0.524  | 1.223  |
| JUND | -0.220  | 0.215  | 0.306  | 0.802  | 0.526  | 1.223  |
| RAD51 | -0.219  | 0.215  | 0.310  | 0.804  | 0.527  | 1.226  |
| SUMO1 | -0.215  | 0.216  | 0.318  | 0.806  | 0.529  | 1.230  |
| GTF2H2 | -0.207  | 0.215  | 0.335  | 0.813  | 0.533  | 1.239  |
| POU1F1 | -0.204  | 0.215  | 0.344  | 0.816  | 0.535  | 1.244  |
| RECQL4 | -0.204  | 0.216  | 0.345  | 0.816  | 0.534  | 1.245  |
| EGF | -0.198  | 0.216  | 0.358  | 0.820  | 0.537  | 1.252  |
| RPA1 | -0.198  | 0.215  | 0.358  | 0.820  | 0.538  | 1.252  |
| IKBKB | -0.197  | 0.216  | 0.361  | 0.821  | 0.538  | 1.253  |
| HELLS | -0.195  | 0.216  | 0.365  | 0.822  | 0.539  | 1.255  |
| NR3C1 | -0.193  | 0.216  | 0.370  | 0.824  | 0.540  | 1.258  |
| TP63 | -0.188  | 0.215  | 0.382  | 0.829  | 0.543  | 1.263  |
| CISD2 | -0.186  | 0.215  | 0.388  | 0.830  | 0.544  | 1.267  |
| CEBPA | -0.186  | 0.215  | 0.386  | 0.830  | 0.545  | 1.265  |
| SNCG | -0.184  | 0.216  | 0.393  | 0.832  | 0.545  | 1.270  |
| UBE2I | -0.183  | 0.215  | 0.394  | 0.832  | 0.546  | 1.269  |
| UBB | -0.167  | 0.215  | 0.439  | 0.846  | 0.555  | 1.291  |
| POLG | -0.166  | 0.216  | 0.441  | 0.847  | 0.555  | 1.293  |
| FOXO4 | -0.163  | 0.215  | 0.450  | 0.850  | 0.557  | 1.296  |
| FOXM1 | -0.160  | 0.215  | 0.456  | 0.852  | 0.559  | 1.299  |
| ERCC4 | -0.156  | 0.215  | 0.469  | 0.856  | 0.561  | 1.304  |
| PRKDC | -0.154  | 0.215  | 0.474  | 0.857  | 0.562  | 1.307  |
| C1QA | -0.153  | 0.217  | 0.482  | 0.858  | 0.561  | 1.314  |
| LRP2 | -0.146  | 0.215  | 0.496  | 0.864  | 0.567  | 1.317  |
| RELA | -0.145  | 0.215  | 0.500  | 0.865  | 0.567  | 1.319  |
| PSEN1 | -0.133  | 0.215  | 0.535  | 0.875  | 0.574  | 1.334  |
| TP53 | -0.133  | 0.215  | 0.535  | 0.875  | 0.575  | 1.333  |
| PDPK1 | -0.126  | 0.215  | 0.558  | 0.882  | 0.578  | 1.344  |
| HSPD1 | -0.123  | 0.215  | 0.566  | 0.884  | 0.580  | 1.347  |
| CTF1 | -0.124  | 0.215  | 0.566  | 0.884  | 0.580  | 1.347  |
| ABL1 | -0.120  | 0.215  | 0.576  | 0.887  | 0.582  | 1.351  |
| RGN | -0.119  | 0.215  | 0.580  | 0.888  | 0.583  | 1.353  |
| APOC3 | -0.118  | 0.216  | 0.585  | 0.889  | 0.583  | 1.356  |
| MDM2 | -0.116  | 0.215  | 0.589  | 0.890  | 0.584  | 1.357  |
| PTPN11 | -0.115  | 0.215  | 0.591  | 0.891  | 0.585  | 1.358  |
| AKT1 | -0.115  | 0.216  | 0.594  | 0.891  | 0.584  | 1.361  |
| BLM | -0.113  | 0.215  | 0.598  | 0.893  | 0.586  | 1.360  |
| CDKN1A | -0.109  | 0.215  | 0.611  | 0.896  | 0.589  | 1.365  |
| TFDP1 | -0.109  | 0.215  | 0.611  | 0.896  | 0.588  | 1.366  |
| NFE2L2 | -0.109  | 0.216  | 0.614  | 0.897  | 0.588  | 1.369  |
| HMGB1 | -0.109  | 0.215  | 0.611  | 0.897  | 0.589  | 1.366  |
| TOP1 | -0.104  | 0.215  | 0.627  | 0.901  | 0.591  | 1.372  |
| CDK7 | -0.102  | 0.215  | 0.635  | 0.903  | 0.592  | 1.377  |
| UCHL1 | -0.101  | 0.216  | 0.640  | 0.904  | 0.592  | 1.380  |
| CLU | -0.101  | 0.215  | 0.638  | 0.904  | 0.593  | 1.378  |
| RAD52 | -0.101  | 0.215  | 0.638  | 0.904  | 0.593  | 1.377  |
| SIRT3 | -0.090  | 0.217  | 0.677  | 0.914  | 0.598  | 1.397  |
| S100B | -0.089  | 0.215  | 0.680  | 0.915  | 0.600  | 1.395  |
| PTGS2 | -0.087  | 0.215  | 0.687  | 0.917  | 0.602  | 1.398  |
| MYC | -0.082  | 0.215  | 0.703  | 0.921  | 0.605  | 1.403  |
| STAT5A | -0.081  | 0.216  | 0.707  | 0.922  | 0.604  | 1.408  |
| APEX1 | -0.080  | 0.216  | 0.709  | 0.923  | 0.605  | 1.408  |
| PML | -0.078  | 0.215  | 0.717  | 0.925  | 0.607  | 1.410  |
| NFKB1 | -0.072  | 0.215  | 0.736  | 0.930  | 0.610  | 1.417  |
| PPARA | -0.071  | 0.215  | 0.740  | 0.931  | 0.611  | 1.419  |
| ERBB2 | -0.071  | 0.215  | 0.743  | 0.932  | 0.612  | 1.420  |
| PCMT1 | -0.068  | 0.215  | 0.752  | 0.934  | 0.613  | 1.425  |
| PYCR1 | -0.063  | 0.216  | 0.769  | 0.939  | 0.615  | 1.432  |
| HDAC2 | -0.062  | 0.215  | 0.774  | 0.940  | 0.617  | 1.433  |
| ADCY5 | -0.055  | 0.215  | 0.797  | 0.946  | 0.620  | 1.443  |
| GSTA4 | -0.055  | 0.215  | 0.799  | 0.947  | 0.622  | 1.442  |
| ERCC6 | -0.052  | 0.215  | 0.808  | 0.949  | 0.623  | 1.447  |
| RAE1 | -0.053  | 0.216  | 0.807  | 0.949  | 0.621  | 1.448  |
| PAPPA | -0.050  | 0.216  | 0.817  | 0.951  | 0.623  | 1.452  |
| TRPV1 | -0.050  | 0.215  | 0.816  | 0.951  | 0.624  | 1.449  |
| HESX1 | -0.048  | 0.215  | 0.822  | 0.953  | 0.626  | 1.451  |
| SDHC | -0.045  | 0.215  | 0.835  | 0.956  | 0.628  | 1.457  |
| UCP1 | -0.045  | 0.218  | 0.838  | 0.956  | 0.624  | 1.467  |
| PLAU | -0.044  | 0.216  | 0.838  | 0.957  | 0.627  | 1.461  |
| XPA | -0.043  | 0.215  | 0.843  | 0.958  | 0.628  | 1.462  |
| ERCC5 | -0.043  | 0.216  | 0.843  | 0.958  | 0.627  | 1.463  |
| TERT | -0.035  | 0.215  | 0.872  | 0.966  | 0.634  | 1.472  |
| MT-CO1 | -0.035  | 0.215  | 0.872  | 0.966  | 0.634  | 1.472  |
| PRKCA | -0.031  | 0.216  | 0.884  | 0.969  | 0.635  | 1.479  |
| BDNF | -0.024  | 0.215  | 0.910  | 0.976  | 0.640  | 1.489  |
| HTT | -0.023  | 0.215  | 0.914  | 0.977  | 0.641  | 1.489  |
| HMGB2 | -0.018  | 0.216  | 0.935  | 0.983  | 0.643  | 1.501  |
| POLD1 | -0.014  | 0.216  | 0.947  | 0.986  | 0.646  | 1.505  |
| HIC1 | -0.012  | 0.216  | 0.957  | 0.988  | 0.648  | 1.508  |
| ATF2 | -0.008  | 0.215  | 0.970  | 0.992  | 0.651  | 1.511  |
| TCF3 | -0.004  | 0.215  | 0.986  | 0.996  | 0.654  | 1.519  |
| PDGFB | 0.000  | 0.215  | 0.999  | 1.000  | 0.656  | 1.525  |
| FAS | 0.002  | 0.215  | 0.994  | 1.002  | 0.657  | 1.527  |
| PMCH | 0.005  | 0.215  | 0.983  | 1.005  | 0.659  | 1.531  |
| CCNA2 | 0.006  | 0.215  | 0.976  | 1.006  | 0.661  | 1.533  |
| MAPK9 | 0.006  | 0.215  | 0.979  | 1.006  | 0.660  | 1.532  |
| NGF | 0.007  | 0.260  | 0.980  | 1.007  | 0.605  | 1.676  |
| JAK2 | 0.008  | 0.215  | 0.971  | 1.008  | 0.661  | 1.537  |
| SLC13A1 | 0.013  | 0.235  | 0.954  | 1.014  | 0.639  | 1.607  |
| LMNB1 | 0.015  | 0.215  | 0.943  | 1.015  | 0.667  | 1.547  |
| FOXO3 | 0.020  | 0.215  | 0.926  | 1.020  | 0.669  | 1.555  |
| GRN | 0.025  | 0.215  | 0.906  | 1.026  | 0.674  | 1.562  |
| HSPA9 | 0.028  | 0.215  | 0.895  | 1.029  | 0.675  | 1.569  |
| A2M | 0.030  | 0.215  | 0.891  | 1.030  | 0.676  | 1.570  |
| POLB | 0.030  | 0.215  | 0.888  | 1.031  | 0.676  | 1.571  |
| XRCC5 | 0.033  | 0.216  | 0.879  | 1.033  | 0.677  | 1.578  |
| NBN | 0.034  | 0.215  | 0.876  | 1.034  | 0.679  | 1.575  |
| CDKN2A | 0.033  | 0.215  | 0.877  | 1.034  | 0.679  | 1.575  |
| SIN3A | 0.034  | 0.215  | 0.874  | 1.035  | 0.679  | 1.575  |
| POLA1 | 0.036  | 0.215  | 0.866  | 1.037  | 0.681  | 1.579  |
| SSTR3 | 0.038  | 0.215  | 0.858  | 1.039  | 0.682  | 1.585  |
| BRCA2 | 0.039  | 0.215  | 0.857  | 1.040  | 0.682  | 1.584  |
| PROP1 | 0.042  | 0.215  | 0.845  | 1.043  | 0.684  | 1.589  |
| INS | 0.042  | 0.353  | 0.906  | 1.043  | 0.522  | 2.084  |
| PPARG | 0.044  | 0.216  | 0.840  | 1.045  | 0.684  | 1.596  |
| DDIT3 | 0.048  | 0.215  | 0.823  | 1.049  | 0.688  | 1.600  |
| SUN1 | 0.049  | 0.215  | 0.820  | 1.050  | 0.689  | 1.601  |
| TFAP2A | 0.052  | 0.215  | 0.808  | 1.054  | 0.691  | 1.605  |
| PDGFRB | 0.054  | 0.217  | 0.803  | 1.055  | 0.690  | 1.614  |
| SQSTM1 | 0.054  | 0.216  | 0.802  | 1.056  | 0.691  | 1.612  |
| EEF1A1 | 0.056  | 0.217  | 0.797  | 1.057  | 0.692  | 1.617  |
| MAPT | 0.056  | 0.215  | 0.793  | 1.058  | 0.694  | 1.612  |
| CDK1 | 0.057  | 0.215  | 0.789  | 1.059  | 0.695  | 1.614  |
| NCOR1 | 0.058  | 0.215  | 0.788  | 1.059  | 0.696  | 1.614  |
| GHRHR | 0.060  | 0.221  | 0.786  | 1.062  | 0.688  | 1.638  |
| PEX5 | 0.063  | 0.215  | 0.771  | 1.065  | 0.698  | 1.623  |
| PLCG2 | 0.063  | 0.215  | 0.771  | 1.065  | 0.698  | 1.624  |
| IFNB1 | 0.065  | 0.215  | 0.762  | 1.067  | 0.700  | 1.627  |
| IRS2 | 0.076  | 0.215  | 0.725  | 1.079  | 0.707  | 1.645  |
| BSCL2 | 0.087  | 0.215  | 0.686  | 1.091  | 0.716  | 1.662  |
| LEPR | 0.094  | 0.215  | 0.661  | 1.099  | 0.721  | 1.675  |
| MAPK8 | 0.094  | 0.215  | 0.661  | 1.099  | 0.721  | 1.676  |
| TOP2A | 0.096  | 0.215  | 0.656  | 1.101  | 0.722  | 1.679  |
| GHRH | 0.102  | 0.216  | 0.637  | 1.107  | 0.726  | 1.690  |
| CHEK2 | 0.106  | 0.215  | 0.623  | 1.112  | 0.729  | 1.695  |
| BRCA1 | 0.115  | 0.215  | 0.591  | 1.122  | 0.737  | 1.710  |
| AGTR1 | 0.117  | 0.215  | 0.585  | 1.124  | 0.738  | 1.712  |
| EP300 | 0.117  | 0.216  | 0.587  | 1.125  | 0.736  | 1.718  |
| MLH1 | 0.123  | 0.217  | 0.570  | 1.131  | 0.740  | 1.729  |
| TBP | 0.124  | 0.216  | 0.568  | 1.132  | 0.740  | 1.729  |
| TP73 | 0.126  | 0.215  | 0.558  | 1.135  | 0.744  | 1.731  |
| RET | 0.128  | 0.216  | 0.554  | 1.136  | 0.744  | 1.736  |
| EEF1E1 | 0.129  | 0.215  | 0.549  | 1.137  | 0.747  | 1.733  |
| APOE | 0.130  | 0.215  | 0.545  | 1.139  | 0.747  | 1.737  |
| IL7R | 0.134  | 0.215  | 0.532  | 1.144  | 0.751  | 1.743  |
| IL2RG | 0.135  | 0.217  | 0.533  | 1.145  | 0.749  | 1.750  |
| MAPK14 | 0.138  | 0.215  | 0.521  | 1.148  | 0.753  | 1.752  |
| PTEN | 0.140  | 0.215  | 0.516  | 1.150  | 0.754  | 1.754  |
| TERF1 | 0.142  | 0.215  | 0.509  | 1.152  | 0.757  | 1.755  |
| E2F1 | 0.142  | 0.216  | 0.510  | 1.153  | 0.755  | 1.760  |
| PIK3CA | 0.147  | 0.215  | 0.496  | 1.158  | 0.759  | 1.765  |
| FGFR1 | 0.148  | 0.216  | 0.493  | 1.159  | 0.759  | 1.770  |
| IGFBP2 | 0.159  | 0.215  | 0.461  | 1.172  | 0.769  | 1.787  |
| KL | 0.160  | 0.216  | 0.457  | 1.174  | 0.769  | 1.792  |
| SIRT1 | 0.163  | 0.215  | 0.450  | 1.177  | 0.772  | 1.796  |
| TAF1 | 0.164  | 0.215  | 0.445  | 1.178  | 0.773  | 1.796  |
| APP | 0.169  | 0.215  | 0.432  | 1.185  | 0.777  | 1.807  |
| EIF5A2 | 0.174  | 0.216  | 0.422  | 1.189  | 0.779  | 1.817  |
| RICTOR | 0.173  | 0.215  | 0.422  | 1.189  | 0.779  | 1.813  |
| TNF | 0.177  | 0.216  | 0.411  | 1.194  | 0.782  | 1.821  |
| VEGFA | 0.181  | 0.216  | 0.402  | 1.198  | 0.785  | 1.828  |
| CREBBP | 0.183  | 0.216  | 0.397  | 1.200  | 0.786  | 1.833  |
| CREB1 | 0.185  | 0.215  | 0.390  | 1.203  | 0.789  | 1.834  |
| FLT1 | 0.192  | 0.218  | 0.379  | 1.212  | 0.790  | 1.858  |
| BUB1B | 0.196  | 0.215  | 0.363  | 1.217  | 0.798  | 1.856  |
| EGR1 | 0.208  | 0.215  | 0.334  | 1.231  | 0.808  | 1.877  |
| CLOCK | 0.209  | 0.215  | 0.331  | 1.232  | 0.809  | 1.877  |
| TP53BP1 | 0.216  | 0.216  | 0.319  | 1.241  | 0.812  | 1.896  |
| ERCC3 | 0.217  | 0.221  | 0.328  | 1.242  | 0.805  | 1.916  |
| HIF1A | 0.220  | 0.216  | 0.307  | 1.247  | 0.817  | 1.903  |
| NRG1 | 0.226  | 0.216  | 0.294  | 1.254  | 0.822  | 1.912  |
| SST | 0.228  | 0.353  | 0.518  | 1.256  | 0.629  | 2.511  |
| ERCC8 | 0.234  | 0.216  | 0.277  | 1.264  | 0.828  | 1.930  |
| CSNK1E | 0.236  | 0.218  | 0.278  | 1.266  | 0.827  | 1.940  |
| TOP2B | 0.238  | 0.216  | 0.270  | 1.268  | 0.831  | 1.935  |
| CNR1 | 0.265  | 0.216  | 0.220  | 1.304  | 0.854  | 1.991  |
| WRN | 0.268  | 0.216  | 0.215  | 1.308  | 0.856  | 1.997  |
| CETP | 0.281  | 0.215  | 0.191  | 1.325  | 0.869  | 2.019  |
| ATR | 0.283  | 0.217  | 0.191  | 1.327  | 0.868  | 2.028  |
| SERPINE1 | 0.287  | 0.217  | 0.186  | 1.332  | 0.871  | 2.037  |
| PPM1D | 0.289  | 0.215  | 0.179  | 1.335  | 0.876  | 2.037  |
| STAT3 | 0.294  | 0.219  | 0.179  | 1.342  | 0.874  | 2.062  |
| MSRA | 0.296  | 0.217  | 0.172  | 1.344  | 0.879  | 2.055  |
| IL6 | 0.300  | 0.215  | 0.164  | 1.349  | 0.885  | 2.058  |
| NOG | 0.302  | 0.216  | 0.162  | 1.352  | 0.886  | 2.063  |
| JUN | 0.305  | 0.216  | 0.157  | 1.357  | 0.889  | 2.072  |
| PCK1 | 0.311  | 0.215  | 0.149  | 1.365  | 0.895  | 2.081  |
| PIK3R1 | 0.321  | 0.216  | 0.138  | 1.378  | 0.902  | 2.104  |
| STAT5B | 0.347  | 0.217  | 0.110  | 1.415  | 0.925  | 2.164  |
| GDF11 | 0.352  | 0.217  | 0.105  | 1.423  | 0.929  | 2.179  |
| DLL3 | 0.358  | 0.216  | 0.097  | 1.431  | 0.937  | 2.186  |
| FGF23 | 0.367  | 0.215  | 0.088  | 1.443  | 0.947  | 2.200  |
| MAX | 0.374  | 0.217  | 0.085  | 1.454  | 0.949  | 2.226  |
| TOP3B | 0.382  | 0.217  | 0.079  | 1.465  | 0.957  | 2.244  |
| IL2 | 0.386  | 0.242  | 0.111  | 1.471  | 0.916  | 2.364  |
| IRS1 | 0.387  | 0.217  | 0.075  | 1.472  | 0.962  | 2.251  |
| EFEMP1 | 0.397  | 0.216  | 0.067  | 1.487  | 0.973  | 2.273  |
| FOS | 0.410  | 0.215  | 0.057  | 1.506  | 0.988  | 2.298  |
| BCL2 | 0.418  | 0.217  | 0.055  | 1.519  | 0.992  | 2.325  |
| IGF1R | 0.433  | 0.217  | 0.046  | 1.542  | 1.008  | 2.358  |
| PIK3CB | 0.455  | 0.218  | 0.037  | 1.576  | 1.028  | 2.418  |
| IGFBP3 | 0.473  | 0.217  | 0.029  | 1.605  | 1.049  | 2.455  |
| IGF2 | 0.479  | 0.216  | 0.027  | 1.615  | 1.057  | 2.467  |
| INSR | 0.484  | 0.217  | 0.026  | 1.623  | 1.061  | 2.484  |
| MXD1 | 0.491  | 0.219  | 0.025  | 1.633  | 1.063  | 2.510  |
| TPP2 | 0.511  | 0.219  | 0.020  | 1.668  | 1.085  | 2.563  |
| EGFR | 0.517  | 0.218  | 0.018  | 1.676  | 1.094  | 2.568  |
| AR | 0.518  | 0.217  | 0.017  | 1.678  | 1.096  | 2.569  |
| GHR | 0.530  | 0.218  | 0.015  | 1.699  | 1.108  | 2.606  |
| HBP1 | 0.537  | 0.219  | 0.014  | 1.712  | 1.115  | 2.628  |
| LEP | 0.602  | 0.217  | 0.006  | 1.826  | 1.193  | 2.796  |
| PDGFRA | 0.659  | 0.222  | 0.003  | 1.932  | 1.250  | 2.986  |