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| **Supplementary Table2. Univariate Cox analysis of ARSN in training cohort** |
|  |  |  |  |  |
| **Gene Symbol** | **HR** | **HR.95L** | **HR.95H** | **p-value** |
| **IARS2** | 0.992  | 0.976  | 1.008  | 0.320  |
| **AARS1** | 1.031  | 1.002  | 1.060  | 0.033  |
| **EARS2** | 0.993  | 0.864  | 1.141  | 0.922  |
| **SARS2** | 0.767  | 0.276  | 2.133  | 0.611  |
| **GARS1** | 1.098  | 1.013  | 1.189  | 0.022  |
| **CARS1** | 1.056  | 0.975  | 1.144  | 0.181  |
| **HARS2** | 1.120  | 1.010  | 1.242  | 0.032  |
| **TARS1** | 1.027  | 1.007  | 1.047  | 0.007  |
| **RARS1** | 1.049  | 1.010  | 1.090  | 0.014  |
| **DARS1** | 1.057  | 1.009  | 1.106  | 0.019  |
| **FARSB** | 1.146  | 1.039  | 1.263  | 0.006  |
| **WARS2** | 1.020  | 0.903  | 1.152  | 0.750  |
| **DARS2** | 1.134  | 1.056  | 1.218  | 0.001  |
| **AARS2** | 0.986  | 0.874  | 1.112  | 0.818  |
| **LARS1** | 1.181  | 0.986  | 1.415  | 0.070  |
| **NARS1** | 1.021  | 1.005  | 1.039  | 0.013  |
| **YARS1** | 1.148  | 1.093  | 1.206  | 0.000  |
| **CARS2** | 1.141  | 1.051  | 1.240  | 0.002  |
| **VARS2** | 0.026  | 0.000  | 252.858  | 0.436  |
| **NARS2** | 1.046  | 0.950  | 1.151  | 0.361  |
| **YARS2** | 1.133  | 1.001  | 1.281  | 0.048  |
| **WARS1** | 1.025  | 1.003  | 1.047  | 0.028  |
| **TARS2** | 1.016  | 0.979  | 1.055  | 0.393  |
| **FARS2** | 0.906  | 0.781  | 1.051  | 0.193  |
| **RARS2** | 1.005  | 0.946  | 1.068  | 0.869  |
| **PARS2** | 1.297  | 1.128  | 1.491  | 0.000  |
| **MARS1** | 1.077  | 1.033  | 1.123  | 0.000  |
| **HARS1** | 1.293  | 1.049  | 1.596  | 0.016  |
| **QARS1** | 1.003  | 0.985  | 1.022  | 0.759  |
| **FARSA** | 1.013  | 0.985  | 1.041  | 0.376  |
| **TARS3** | 0.781  | 0.567  | 1.077  | 0.132  |
| **IARS1** | 1.067  | 1.027  | 1.108  | 0.001  |
| **VARS1** | 1.003  | 0.980  | 1.027  | 0.801  |
| **MARS2** | 1.057  | 0.911  | 1.227  | 0.467  |
| **AIMP2** | 1.023  | 0.967  | 1.083  | 0.427  |
| **AIMP1** | 1.000  | 0.898  | 1.113  | 0.995  |
| **EPRS1** | 1.012  | 0.990  | 1.034  | 0.304  |
| **EEF1E1** | 1.040  | 0.906  | 1.193  | 0.577  |
|  |  |  |  |  |
| \*HR represent Hazard ratio, \*HR. 95L represent lower-bound of 95% confidence intervals, \*HR. 95H represent upper-bound of 95% confidence intervals. |
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