Supp table 4: Kaplan-Meier Survival Analysis results of Lower-Grade Glioma and Glioblastoma Multiforme.

Lower Grade Glioma - LGG Glioblastoma Multiforme - GBM

| Gene | p-value | Better prognostic survival | p-value | Better prognostic survival |
| --- | --- | --- | --- | --- |
| *ABHD5* | 0.0471\* | High | 0.034\* | High |
| *AGA* | 0.000431\* | High | 0.478 | High |
| *ARSA* | 0.0153\* | Low | 0.312 | High |
| *ARSB* | 0.58 | High | 0.307 | Low |
| *ASAH1* | 0.153 | High | 0.589 | High |
| *CLCN5* | 0.0064\* | Low | 0.549 | Low |
| *CLN3* | 0.0967 | High | 0.663 | High |
| *CLN5* | 0.19 | High | 0.147 | High |
| *CLN6* | 0.004\* | Low | 0.004\* | Low |
| *CLN8* | 0.166 | High | 0.273 | Low |
| *CTNS* | 0.000615\* | High | 0.15 | Low |
| *CTSA* | 4.54e-05\* | High | 0.258 | High |
| *CTSK* | 0.00925\* | High | 0.54 | High |
| *FIG4* | 0.248 | High | 0.56 | Low |
| *FUCA1* | 2.1e-05\* | Low | 0.0374\* | High |
| *GAA* | 0.0303\* | Low | 0.366 | Low |
| *GALC* | 0.239 | Low | 0.108 | Low |
| *GALNS* | 0,000000004\* | High | 0.374 | Low |
| *GBA* | 0.019\* | Low | 0.0436\* | High |
| *GLA* | 3.52e-10\* | High | 0.603 | High |
| *GLB1* | 1.07e-06\* | High | 0.147 | High |
| *GM2A* | 0.769 | Low | 0.561 | High |
| *GNPTAB* | 0.593 | High | 0.88 | Low |
| *GNPTG* | 0.00492\* | Low | 0.277 | High |
| *GNS* | 3.21e-08\* | High | 0.000846\* | Low |
| *GUSB* | 1.11e-08\* | High | 0.161 | High |
| *HEXA* | 0.0105\* | Low | 0.171 | High |
| *HEXB* | 3.18e-12\* | Low | 0.266 | High |
| *HGSNAT* | 0.00315\* | Low | 0.00656\* | Low |
| *HYAL1* | 0.703 | Low | 0.434 | Low |
| *IDS* | 0.34 | Low | 0.041\* | Low |
| *IDUA* | 0.037\* | Low | 0.796 | High |
| *LAMP2* | 0.00078\* | Low | 0.621 | High |
| *LIPA* | 0.525 | High | 0.937 | High |
| *MAN2B1* | 0.000713\* | Low | 0.994 | Low |
| *MANBA* | 0.0277\* | Low | 0.00139\* | Low |
| *MCOLN1* | 0.417 | Low | 0.0405\* | High |
| *NAGA* | 0.000107\* | Low | 0.448 | High |
| *NAGLU* | 0.167 | Low | 0.00428\* | Low |
| *NEU1* | 0.932 | Low | 0.899 | High |
| *NPC1* | 0.42 | Low | 0.038\* | Low |
| *NPC2* | 0.0018\* | Low | 0.0453\* | High |
| *OCRL* | 0.00349\* | Low | 0.588 | Low |
| *PNPLA2* | 0.0491\* | Low | 0.0457\* | Low |
| *PPT1* | 0.237 | High | 0.63 | High |
| *PSAP* | 0.0193\* | High | 0.336 | High |
| *SGSH* | 3.96e-07\* | Low | 0.0104\* | Low |
| *SLC17A5* | 0.715 | High | 0.915 | Low |
| *SLC9A6* | 6.66-05\* | Low | 0.854 | Low |
| *SMPD1* | 0.0163\* | High | 0.00224\* | Low |
| *SUMF1* | 0.000361\* | Low | 0.0452\* | High |
| *TPP1* | 0.659 | High | 0.0448\* | Low |

\* represents the statistically significant results.