## **Description of Additional Supplementary Files**

**Supplementary Data 1**: Molecular characteristics of GBM patients with germline mutations described in this real-world observation.

Abbreviations: OS, overall survival; CPI, checkpoint inhibitor; IMM, immune monitoring; germline mutation denotes ACMG pathogenic/likely pathogenic germline mutation; HRD, homologous recombination deficiency; TMB, tumor mutational burden; MSI, microsatellite instability; RTK, receptor tyrosine kinase; U, unmethylated; M, methylated; m, male; f, female; x, presence; na, not available; empty box denotes absence.

**Supplementary Code 1**: R code for the propensity score matching and the multivariate analysis.

**Supplementary Code 2**: R code for the survival analysis, the univariate analysis, and the figures.