



Figure S3. Temperature-dependent expression patterns of *NyMBF1* in *Neopyropia yezoensis* gametophytes. Relative mRNA levels at 5, 15, and 25°C were normalized using *GAPDH*, *EF1α*, or *eIF4A* as the reference gene. Significant differences in expression level among the three life cycle generations from triplicate independent replicates as defined by Tukey's test ($p < 0.05$) in two-way ANOVA are shown in Table S4.