\[ -\log_{10}(p) \]

Chromosome

\[ \beta\text{-Carotenoids/}\alpha\text{-Carotenoids} \]

\[ \beta\text{-Xanthophylls/}\alpha\text{-Xanthophylls} \]

\[ \beta\text{-Carotene/}\beta\text{-Cryptoxanthin} \]
Figure S2 Genomic association study (GWAS) of 24 carotenoid grain traits. Scatter plots of association results from a unified mixed model analysis of each carotenoid grain trait. Negative log$_{10}$-transformed $P$-values (y-axis) from GWAS are plotted against physical position (B73 RefGen_v2) on each of 10 chromosomes (x-axis). Chromosomes are alternatingly colored. The horizontal green line indicates the $-\log_{10}P$-value of the least statistically significant SNP at 5% false discovery rate (FDR). Additional information for all statistically significant markers at 5% and 10% FDR are provided in Table S8 (A).