**Figure S4** Manhattan plot for CIE a* considering false discovery rate 1% for multiple testing correction. Manhattan plot for CIE a* considering estimated *q*-values <0.01 on the *P*-values resulting from MA-GWA using: a. Sample size weights; b. Inverse variance weights. -Log10(p-value) (y-axis) versus absolute SNP position in Megabases (x-axis); Horizontal line marks the significance threshold according to false discovery rate 1%.