



**Figure S2.** Genome-wide association study of phytosterol content in the sesame population. The horizontal dashed lines indicated the genome-wide significance threshold ( $p < 10^{-5}$ ). (a). Manhattan plots and QQ plots of four phytosterols in WH. (b). Manhattan plots and QQ plots of four phytosterols in ZMD. Manhattan plots described the extent of the association of SNPs located on chromosome and significant related SNPs. QQ plots showed observed and expected  $-\log_{10}(p)$  values for phytosterol content.