

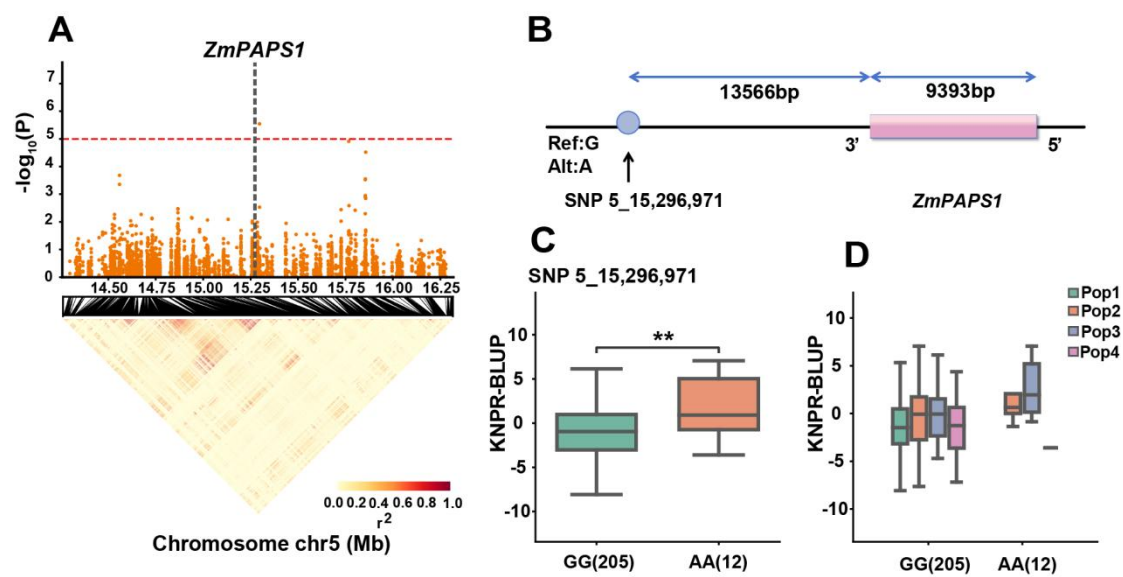


Fig. S1. (A) LD block of gene *ZmPAPS1*, (B) Relative physical positions of *ZmPAPS1* and SNP 5_15,296,971 (C) Frequency distribution of the two alleles of SNP 5_15,296,971 in the MPP, and (D) Boxplot comparing KNPR-BLUP values among different genotypes. * Indicates $P < 0.05$; ** Indicates $P < 0.01$; *** Indicates $P < 0.001$.