

Physical position (Mb)

Figure S9. A regional Manhattan plot of locus 32. Scatter plot of association results from a mixed model analysis of Zn grain concentration and linkage disequilibrium (LD) estimates (r^2) for a genomic region that contains the peak SNP (5-195765640) at locus 32. Each vertical line represents the $-\log_{10} P$ -value of a SNP. Triangles are the r^2 values of each SNP relative to the peak SNP (indicated in red) at 195,765,640 bp (B73 RefGen_v4) on chromosome 5. The red horizontal dashed line indicates the $-\log_{10} P$ -value of the least statistically significant SNP at a genome-wide false discovery rate of 5%. The yellow vertical line indicates the genomic position of the *yellow stripe-like2* (*ysl2*) gene (Zm00001d017427). The open triangles indicate SNPs that are within the candidate gene. The light blue rectangle demarcates the \pm 100 kb candidate gene search space surrounding the peak SNP.