

Supplemental figures

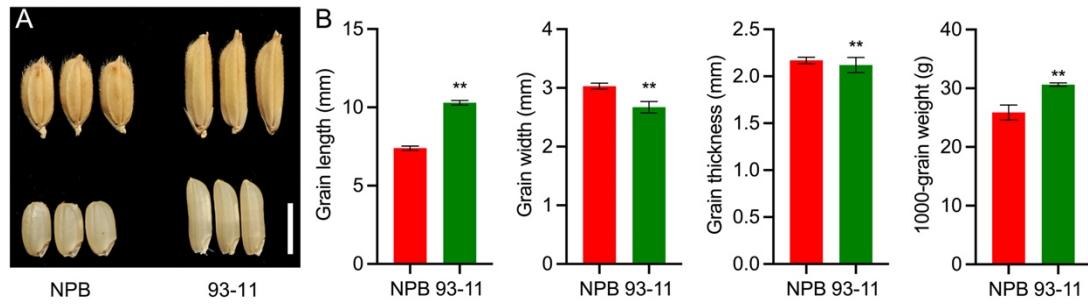


Figure S1. Phenotypic analysis of GL, GW, GT, and TGW in NPB and 93-11. (A) Grains with hull and brown grains of NPB and 93-11. (B) Statistical analysis of GL, GW, GT, and TGW in NPB and 93-11. Data shown as mean \pm SD ($n = 20$). ** $p < 0.01$. Student's t-test was used to generate the p values.

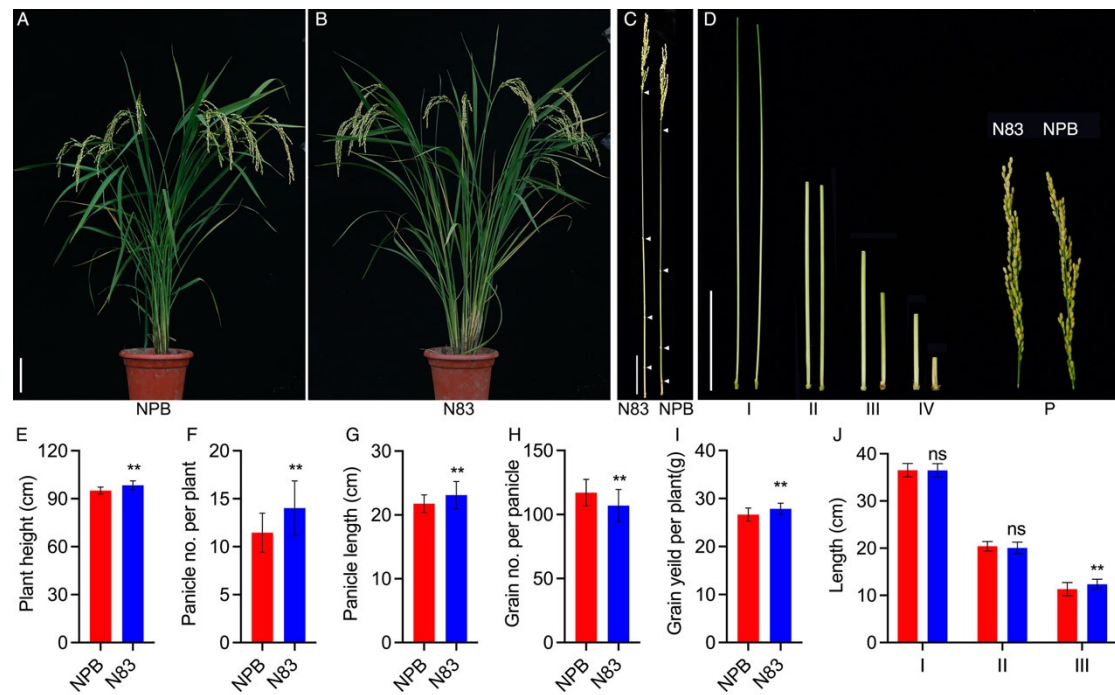


Figure S2. Phenotypic analysis of major agronomic traits of NPB and N83 at maturity. Phenotype of NPB (A) and N83 (B) plants at maturity. (C) Phenotype of the main stem of NPB and N83 plants, where white triangles are marked for each stem node. (D) The length of panicle and internode from the main stem of NPB and N83 plants. Scale bar: 10 cm. (E–I) Statistics of plant type related traits of N83 and NPB, PH (E), PN (F), PL (G), GN (H), and GYP (I). (J) Statistics of the length of the panicle and the last three internodes of NPB and N83. I: 1st internode; II: 2nd internode; III: 3rd internode. Data shown as mean \pm SD ($n = 20$). ns, $p > 0.05$, ** $p < 0.01$. Student's t-test was used to generate the p values.

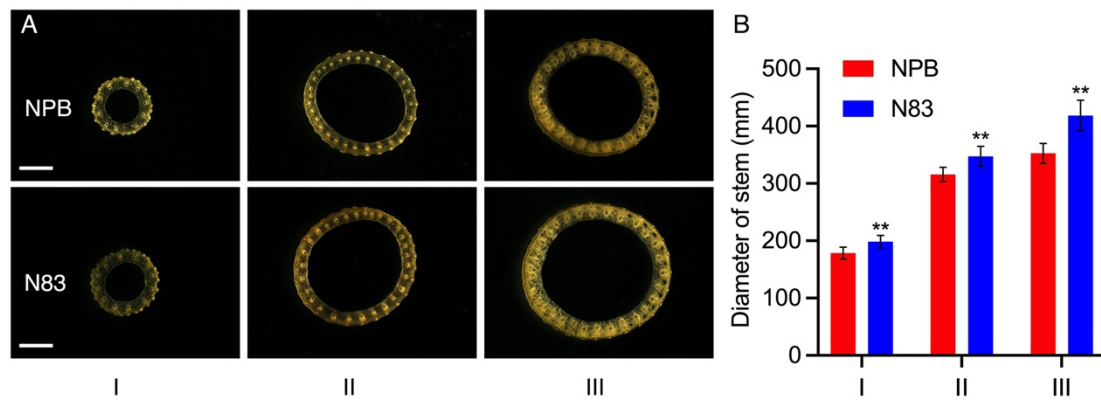


Figure S3. Comparison of the horizontal section in the last three internodes between NPB and N83. (A) Histological observation of the horizontal section of the last three internodes in NPB and N83. I: 1st internode, II: 2nd internode, III: 3rd internode. Scale bar: 1 mm. (B) Statistical analysis of the diameter of the main stem of NPB and N83. Data in (a) ($n = 20$) are means \pm SD, ** $p < 0.01$. Student's t -test was used to generate the p values.

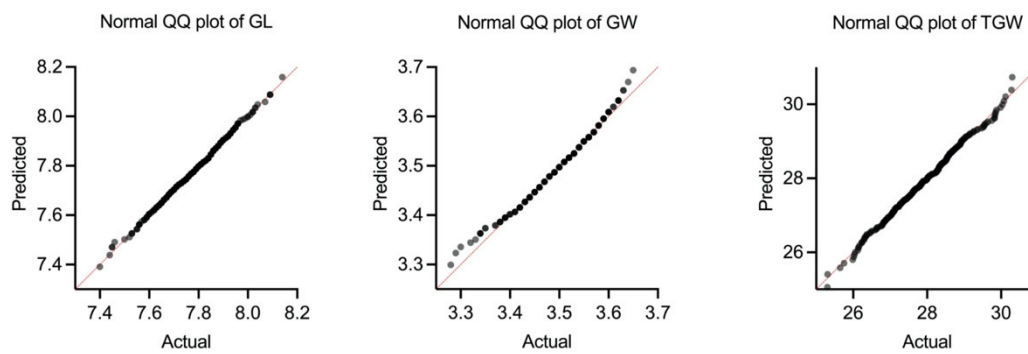


Figure S4. Normality analysis of GL, GW, and TGW of plants in the BC₉F₃ population.