S2 Fig. Summary of sampling of all hybrid varieties.

(A) Field display of differences in plant height among hybrid individuals. A few LYP9 F₁s were significantly taller than others. Two middle photos are taken by Prof. Dacheng Tian with tall progeny.
of high recombinant LYP9 individuals (left one) and normal (non-recombinant) LYP9 F₁ individuals (right one).

(B) A total of 50 F₁ individuals which presented exceptionally tall statures, were sampled in summer of 2017. Specifically, 26 tall individuals from ~1,100,000 LYP9 individuals with plant height > 130 cm were collected, and among them, 24 samples harboring the wild-type SDI gene (NwtPwt) (Supplementary table S2) and two samples were determined to be false positives. In the other four crosses, a total of 24 tall individuals with plant height > 150 cm were sampled, and all of them were confirmed to be recombinant lines (Supplementary table S6). *: Lowercase “s” means sterile line, similarly for other parental lines.