



### S3 Fig. Comparison of agronomic traits.

Comparison of (A) plant height, (B) grain length, (C) grain width and (D) 1,000-grain weight and (E) panicle length between NIL-*GNP1*<sup>LT</sup> and NIL-*GNP1*<sup>TQ</sup>. Values are means  $\pm$  s.d. (n = 18). Comparison of (F) primary branch number (PBN) and secondary branch number (SBN) between NIL-*GNP1*<sup>LT</sup> and NIL-*GNP1*<sup>TQ</sup>. Values are means  $\pm$  s.d. (n = 150). Comparison of (G) primary branch number (PBN) and secondary branch number (SBN) between Lemont (LT) and Teqing (TQ). Values are means  $\pm$  s.d. (n = 150).