



**Figure S1. Phenotypic data of the extreme pools.** For bulk segregant analysis (BSA), extreme pools were constructed by selecting 30 plants with the longest vines and 30 plants with the shortest vines from the F2 population. The plant heights of the long-vine pool ranged from 100 cm to 160 cm, while those of the short-vine pool ranged from 35 cm to 70 cm.