



Fig. S1. The roles of *YUC* genes in gravitropic response. Wild-type plants grow towards gravity, but disruption of the five *YUC* genes (*yucQ*) led to agravitropic growth. Addition of 5 nM IAA into the growth media largely rescued the gravitropic response defects of *yucQ*. Expression of *YUC3* in the roots of *yucQ* completely rescued the gravitropic response defects.