

S1 Fig. Cytological observation and biochemical analysis of the wild-type and o10 endosperm. (A) Scanning electron microscopy of the wild-type and o10 endosperm. Bars = $20 \mu m$. (B) Resin slice observation of the wild-type and o10 endosperm at 12 DAP and 18 DAP. Bars = $50 \mu m$. (C) SDS-PAGE analysis of the total protein extracts from the endosperm of developing wild-type and o10 kernels (18 DAP and 24 DAP) and mature kernels. (D) Protein quantification of total protein, zein and non-zein extracted from the endosperm of wild-type and o10 mature kernels. (E) Comparison of the total starch content in the wild-type and o10 mature kernels.