**Title:** Supplementary Data 1.

**Description:** Transcript level decreased and increased genes in *h3.3ko*.

Title: Supplementary Data 2.

**Description:** Accessibility significantly decreased and increased regions in h3.3ko

mature seeds.

**Title:** Supplementary Data 3.

Description: Genes associated with accessibility significantly decreased and

increased regions in h3.3ko mature seeds.

Title: Supplementary Data 4.

**Description:** Enriched TF binding motifs in H3.3-established open chromatin

regions.