

Description of Additional Supplementary Files

Supplementary Data 1 RNA seq seedling_ubp5 and Col_0

Supplementary Data 2 Misregulated genes in ubp5_Developmental process

Supplementary Data 3 H2Aub and H3K27me3 marked genes in Col and ubp5 seedlings

Supplementary Data 4 Differential analysis of H2Aub marked genes in ubp5

Supplementary Data 5 Different categories of H2Aub marked genes

Supplementary Data 6 UBP5 target genes

Supplementary Data 7 Differential analysis of H3K27me3 marked genes in ubp5