

Transcriptional streamlining

CK (wild): 4,400 genes ↑ defense

W6 (intermediate): 3,111 genes ↑

W5 (domesticated): 1,104 genes ↑

Defense pruned → cell wall retained

Post-transcriptional modulation

6,967 shared Tx-Pr pairs

Pearson $r = 0.41$, $P < 10^{-286}$

634 cell wall/plastid proteins

Disproportionate protein ↑

Plastid transition + metabolic output

Proplastid → Amyloplast

Liquid → Solid endosperm

7-month developmental switch

Oil & starch accumulation

Development: Early (3-4 mo) → Mid (5-7 mo) → Late (9-11 mo)

CK (wild tall) → W6 (intermediate dwarf) → W5 (domesticated dwarf)