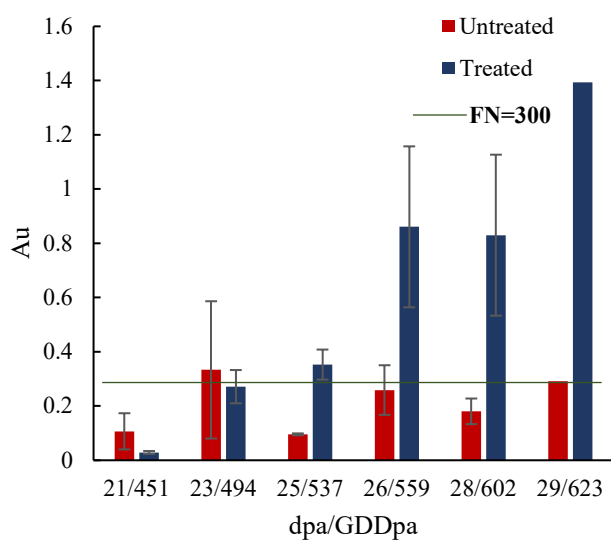


**Fig. S1.** Greenhouse LMA induction in soft white spring wheat in a) Environment 1 (E1) and b) Environment 2 (E2). Alpha-amylase activity is shown in  $A_{620}$  absorbance units (Au). ‘Alturas’ and ‘WA8124’ were successfully induced in both experiments. The green line represents the alpha-amylase value when FN = 300. Each bar represents 3 - 15 biological replicates  $\pm$  standard deviation.



**Fig. S2.** LMA time course experiment on an Australian line, Kennedy: LMA was successfully induced in between 25 – 29 dpa. Each bar represents  $n = 1 - 5$  spikes.



**Fig. S3.** The appearance of WA8124 grains and tillers: a-c) at 21 dpa, d-f) at 24 dpa, and g-h) at 28 dpa. Note that by the time the grains are no longer LMA susceptible, the vascular bundle has lost its green coloration.