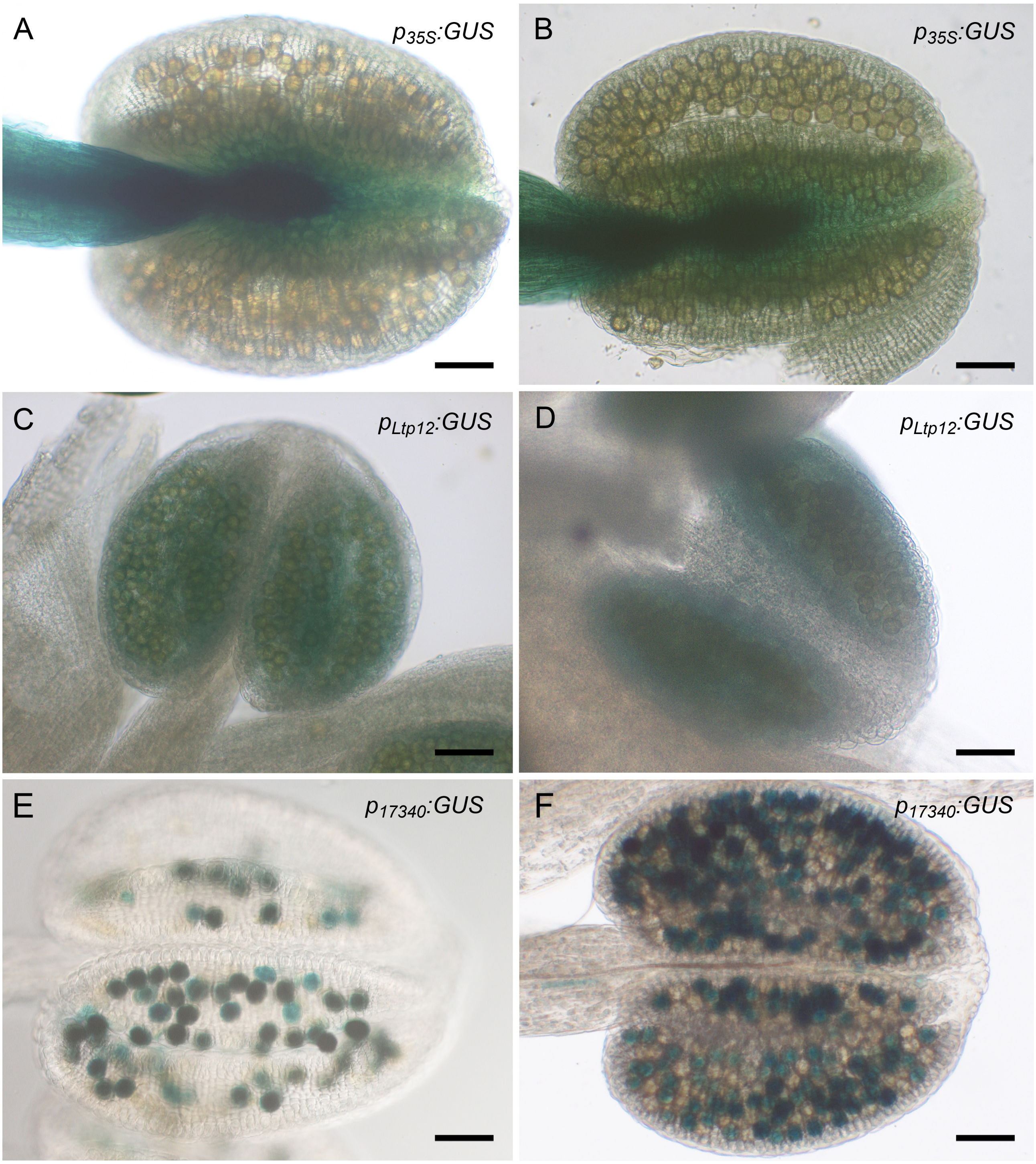

Additional file 3: Figure S3. Histochemical localization of GUS activity in anthers of p_{35S}:*GUS*, p_{Ltp12}:*GUS* and p_{17340}:*GUS* transgenic Arabidopsis plants.

Inflorescences of p_{35S}:*GUS* (**A**,**B**), p_{Ltp12}:*GUS* (**C**,**D**) and p_{17340}:*GUS* (**E**,**F**) transgenic plants were infiltrated with X-Gluc solution, stained overnight, fixed and cleared for microscopic analysis. Each panel shows a whole-mount anther at stage 12/13 (**A**,**B**,**E**,**F**) or stage 9/10 (**C**,**D**) from an independent transgenic line. GUS activity was detected in the filaments and vascular tissues of p_{35S}:*GUS* anthers but not in pollen grains. The p_{Ltp12}:*GUS* construct induced GUS activity specifically in the tapetum, wheras GUS activity in p_{17340}:*GUS* transgenic anthers was almost exclusively detected in pollen grains. Scale bars are 50 µm.