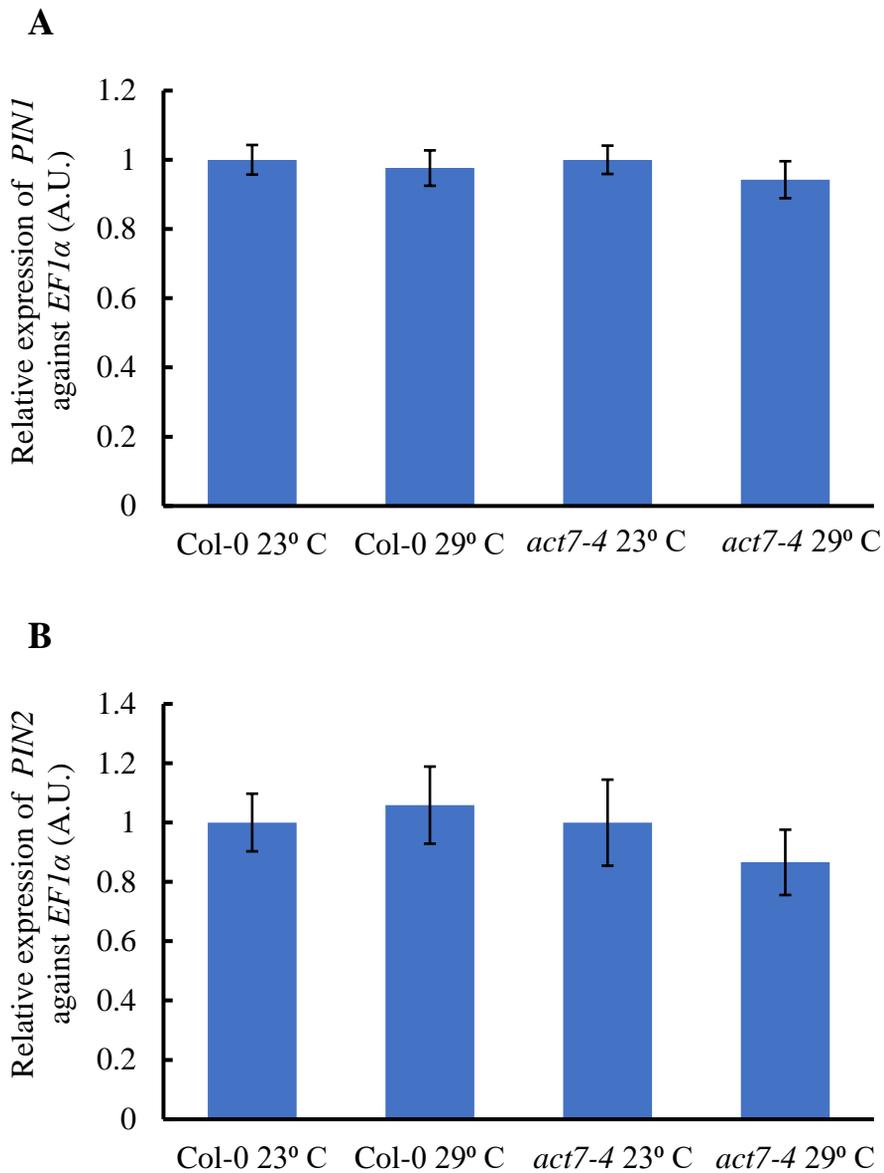


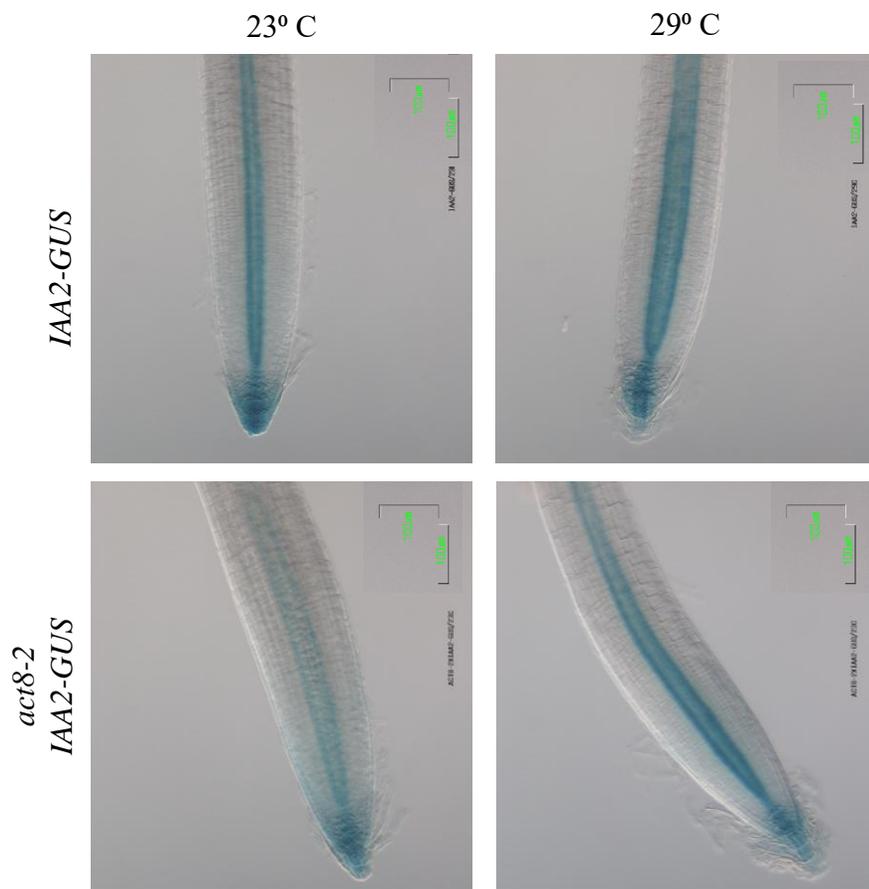
**Figure S1** : Effect of prolonged moderate high temperature on PIN2 abundance in *act8-2* roots. Five-day-old light grown seedlings were transferred to new agar plates and subjected to high-temperature treatment (29° C) for 72 hours before imaged with confocal microscopy using the same confocal settings. Images are representative of 15 to 20 seedlings obtained from three independent experiments. Bars = 50 µm.



**Figure S2.** Expression of *PIN1* and *PIN2* are not changed at transcriptional level under prolonged moderate high temperature in Col-0 and *act7-4*.

(A) *PIN1* expression under prolonged high temperature in Col-0 and *act7-4*. (B) *PIN2* expression under prolonged high temperature in Col-0 and *act7-4*.

Five-day-old light grown seedlings were transferred to new agar plates and subjected to high-temperature treatment (29° C) and control (23° C) for 72 h before collecting RNA for semi-quantitative RT-PCR analysis. All the data were normalized against *EFL1α*. The data were obtained from three biological replicates. Vertical bars in the graph represent mean  $\pm$  SE.



**Figure S3.** Auxin distribution in *act8-2* roots under prolonged moderate high temperature. Five-day-old *IAA2-GUS* and *act8-2 IAA2-GUS* seedlings were transferred at 23° C and 29° C for 72 hours. Seedlings were stained in a buffer containing 1 mM X-gluc for 1 h at 37° C and cleared for photography. These are representative images stained in at least three separate experiments. Bars = 100µm.

**Table S1. Primer list used to perform PCR.**

PRIMER	SEQUENCE
<i>PIN1</i> F	ATCTTCACATGTTTGTGTGG
<i>PIN1</i> R	TCGTCTTTGTTACCGAAACT
<i>PIN2</i> F	GGAGACGGCTGGTTCAATTA
<i>PIN2</i> R	ACCACCACGTGTAGCTTTCC
<i>EF1<math>\alpha</math></i> F	CTTGCTTTCACCCTTGGTGT
<i>EF1<math>\alpha</math></i> R	TCCCTCGAATCCAGAGATTG