

**SUPPLEMENTARY INFORMATION**

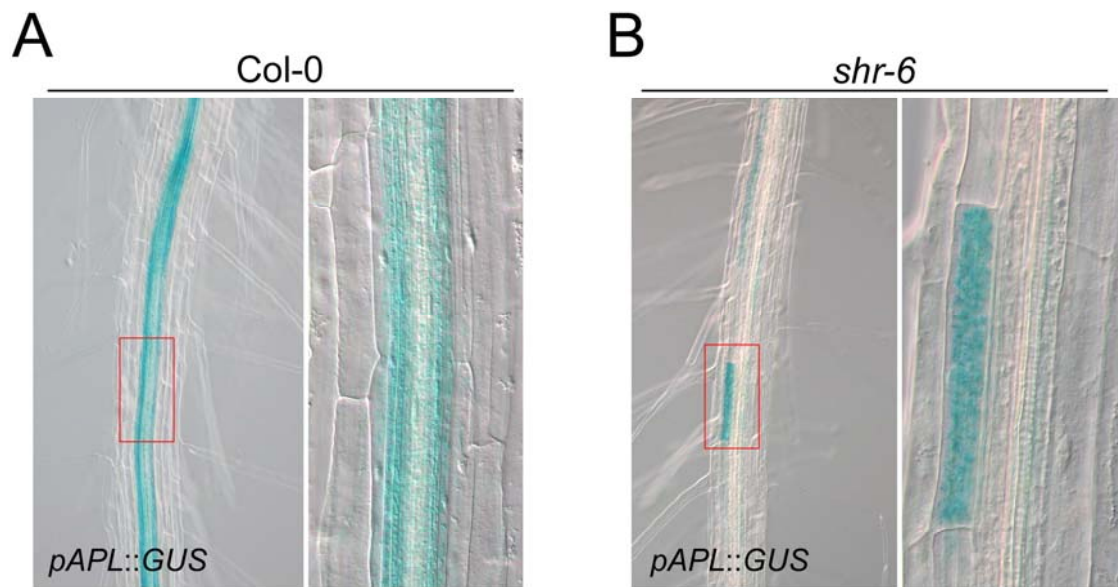
**Characterization of SHORT-ROOT Function in the *Arabidopsis* Root**

**Vascular System**

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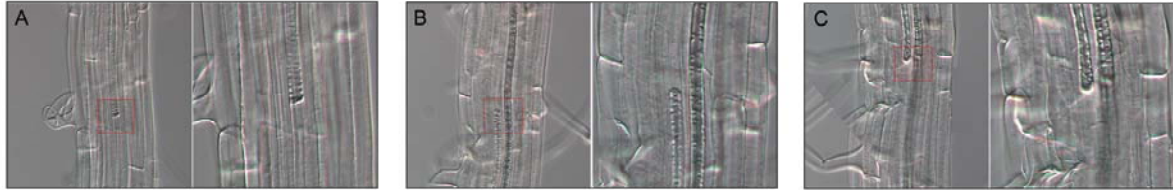
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**Fig. S1.**



**Fig. S1.** Cell fate specification of the phloem lineage in the root vasculature. (A) The expression pattern of *pAPL::GUS* in Col-0. Blue staining was clearly observed in two arrays of SE cell files of the protophloem. (B) The expression pattern of *pAPL::GUS* in *shr-6*. Discontinuously patched GUS staining was found along the longitudinal axis of the root. Occasionally, blue staining in subepidermal cells could be observed in the *shr-6* root.

**Fig. S2.**



**Fig. S2.** Analysis of xylem formation in *shr* primary roots. Longitudinal differential interference contrast (DIC) images of *shr-6* (A-C). No annular cell wall thickening of the protoxylem vessels could be observed in *shr-6*. Occasionally, lack of continuity of reticulated cell wall thickening of the metaxylem vessels was observed along the longitudinal axis of *shr-6* roots.