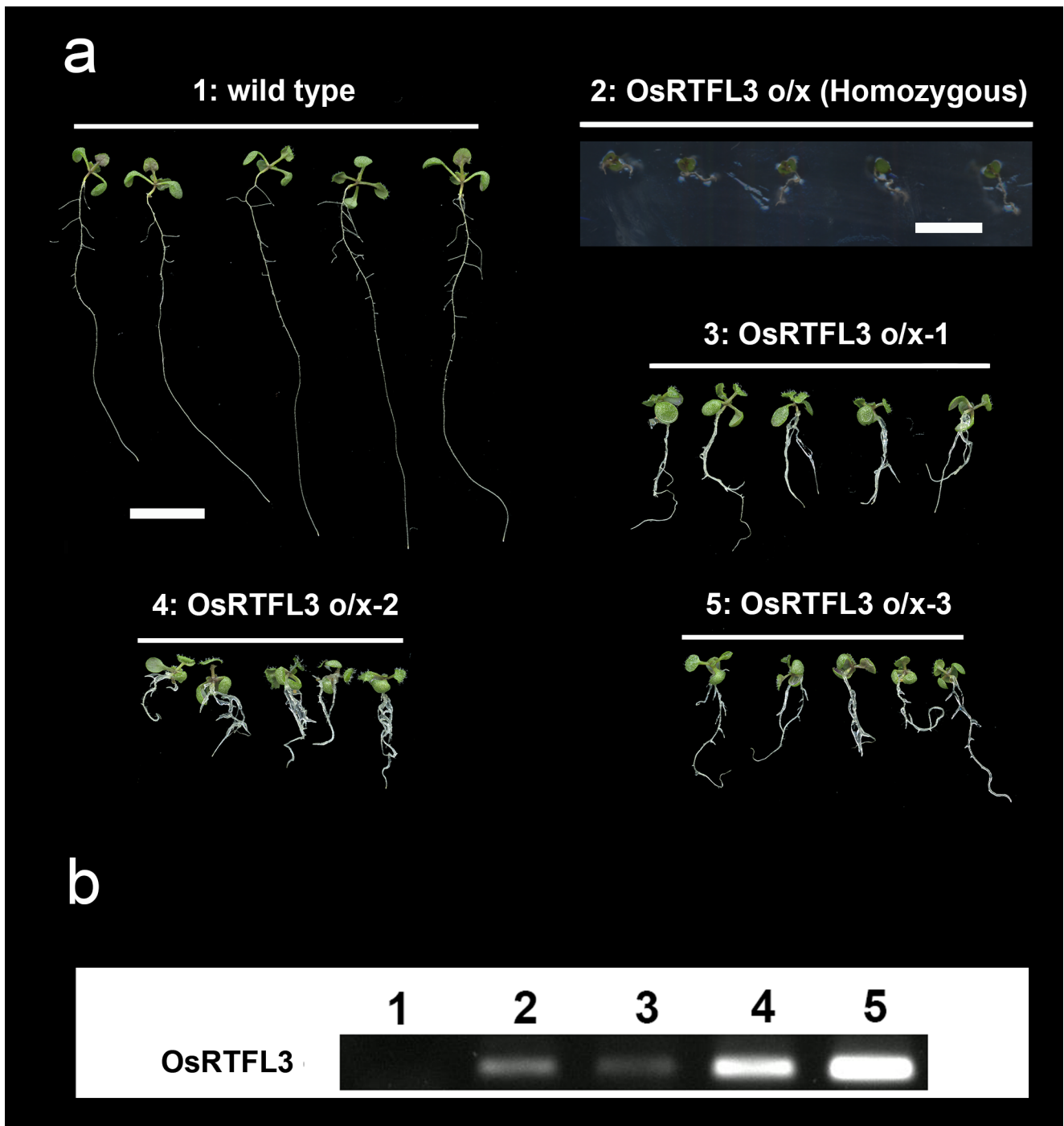


**Fig. S1** Comparative analysis of 180 RTFL members among land plants



**Fig. S2** Root growth of wild-type and four independent *OsRTFL3* o/x lines.  
**a** Root phenotypes of 7-day-old plants. Only seedlings with strong phenotypes were selected from segregated siblings for *OsRTFL3* o/x-1–3 (heterozygous lines). Scale bars; left (for panel 1, 3–5): 1 cm; right (for panel 2): 1 cm. **b** Presence of the *OsRTFL3* transgene in *OsRTFL3* o/x lines. Results of genomic PCR of wild-type and *OsRTFL3* o/x lines are shown. Lane 1: wild-type; 2: *OsRTFL3* o/x (homozygous line); 3–5: *OsRTFL3* o/x -1–3 (heterozygous lines). In each line, genomic DNA was isolated from a mixture of 10 individuals