

Table 1 Suppl. Primer sequences used in this study (ORF - open reading frame, qPCR - quantitative PCR, RT-PCR - reverse transcription PCR, T_m -melting temperature).

Primer	Primer sequences (5' → 3')	T _m [°C]	Introductions
GhWRIF1	ATGAAGAGGTCACCGAGTTGT	56	ORF amplification
GhWRIR1	CTCCGAATTATCAGAAACTCT	53	
GhWRIF	GGCATAGATGGACTGGGAGAT	58	semi-quantitive RT-PCR
GhWRIR	GCTGCTGCTTCCTCTTGTTGT	59	
GhactinF	ATTGTGAGCAACTGGGATGA	56	semi-quantitive RT-PCR
GhactinR	GAGTGTGGCAGGGGTAGATG	59	
GhWRIfqF	CACCGCTGAAATGCCAAACT	58	RT-qPCR
GhWRIfqR	TGCTCATGGAACACCGACT	59	
UBQ7qF	GAAGGCATTCCACCTGACCAAC	60	RT-qPCR
UBQ7qR	CTTGACCTTCTTCTTGTGCTTG	61	
GhWRIfvF	CGGGATCCCGATGAAGAGGTCACCGAGTTGT	57	vector construction
GhWRIfvR	GGACTAGTCCCTCCGAATTATCAGAAACTCT	53	
KanF	CACTGAAGCGGGAAGGGACT	60	identification of PCR and Southern blot
KanR	CGATACCGTAAAGCACGAGGAA	60	

Table 2 Suppl. Growth characteristics of wild-type (WT) and *GhWRI1* transgenic lines (LK075-3, LK676-2, LK078-2, LK079-1, and LK180-3). Means ± SEs derived from three biological repeats and measured three times in one repeat. The different letters indicate significant differences at a 0.05 level based on Tukey test.

Traits	WT	LK075-3	LK076-2	LK078-2	LK079-1	LK180-3
Plant height [cm]	94.6 ±5.42 ^a	103.4 ±8.34 ^b	108.2 ±7.31 ^b	112.2 ±9.82 ^b	104.2 ±7.45 ^b	87.2 ±6.92 ^a
Height of primary branch [cm]	25.2 ±4.34 ^a	28.4 ±4.43 ^b	28.0 ±3.67 ^b	24.8 ±2.03 ^a	30.4 ±2.67 ^b	23.2 ±4.13 ^a
Branch number	10.2 ±1.49 ^a	10.2 ±0.89 ^a	10.0 ±0.52 ^a	10.2 ±0.67 ^a	10.6 ±0.62 ^a	10.4 ±0.88 ^a
Boll number	29.8 ±3.54 ^a	28.0 ±3.85 ^a	30.4 ±4.07 ^a	30.0 ±3.82 ^a	30.4 ±4.94 ^a	31.4 ±3.12 ^a
Boll weight [g]	4.78±0.59 ^a	4.98±0.86 ^a	4.52±0.52 ^a	4.96±0.75 ^a	4.46±0.53 ^a	4.66±0.55 ^a
Seed index [g]	9.01±0.26 ^a	9.89±0.36 ^b	10.26±0.22 ^b	10.31±0.38 ^b	9.98±0.31 ^b	10.21±0.36 ^b
Lint index [g]	6.89±0.23 ^a	6.15±0.42 ^b	5.49±0.33 ^c	5.17±0.28 ^d	5.65±0.19 ^c	5.54±0.33 ^c
Lint percentage [%]	38.13±0.51 ^a	36.21±0.76 ^b	36.38±0.89 ^b	37.28±0.33 ^b	36.19±1.01 ^b	36.31±0.68 ^b
Fiber length [mm]	28.38±0.65 ^a	27.56±1.51 ^a	27.38±1.32 ^a	27.78±0.56 ^a	27.71±0.89 ^a	28.39±0.71 ^a
Fiber uniformity index [%]	84.13±1.41 ^a	83.63±0.42 ^a	82.47±0.76 ^a	84.81±1.97 ^a	83.23±1.92 ^a	82.49±0.69 ^a
Fiber strength [cN/dtex]	28.76±0.56 ^a	28.62±0.67 ^a	27.65±0.31 ^a	28.24±0.83 ^a	28.26±0.53 ^a	28.23±0.62 ^a
Fiber elongation rate [%]	6.49±0.22 ^a	6.48±0.21 ^a	6.47±0.23 ^a	6.46±0.25 ^a	6.49±0.20 ^a	6.47±0.26 ^a
Micronaire	4.16±0.32 ^a	4.25±0.39 ^a	4.13±0.61 ^a	4.28±0.21 ^a	4.37±0.26 ^a	4.32±0.18 ^a