

Supplementary data:

Mapping of genes for flower-related traits and QTLs for flowering time in an interspecific population of *Gossypium hirsutum* × *G. darwinii*

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Table 1. Loci composition and recombination distances of chromosomes based on SSRs in the F₂ population.

Chr.	Group	Total loci	Size (cM)	Average distance (cM)	No of gaps > 10 cM (largest)
<i>A</i> genome					
A1	3	14	123.30	8.81	4 (29.4)
A2	1	13	87.30	6.72	2 (24.7)
A3	2	9	63.80	7.09	3 (16.7)
A4	2	9	37.40	4.16	2 (11.6)
A5	3	20	185.40	9.27	5 (39.7)
A6	2	18	89.40	4.97	3 (22.1)
A7	2	13	136.50	10.50	8 (24.1)
A8	1	2	2.20	2.20	0
A9	2	12	86.32	7.19	4 (35.2)
A10	1	14	124.20	8.87	5 (17.9)
A11	2	12	128.00	10.67	7 (24.9)
A12	3	11	92.80	8.44	3 (30.5)
A13	2	13	99.10	7.62	3 (18.9)
Total	26	160	1255.72	7.85	41 (39.7)
<i>D</i> genome					
D1	2	16	148.00	9.25	5 (35.8)
D2	1	15	90.20	6.01	3 (15.4)
D3	2	20	107.17	5.36	3 (20.2)
D4	1	13	75.50	5.81	4 (14.5)
D5	2	18	142.50	7.92	7 (13.1)
D6	1	12	47.70	3.98	1 (10.9)
D7	3	16	111.40	6.96	3 (28.1)
D8	2	12	79.30	6.61	3 (16.1)
D9	2	12	58.30	4.86	1 (10.1)
D10	1	12	72.40	6.03	2 (25.5)
D11	2	16	123.90	7.74	4 (28.1)
D12	2	6	90.00	15.00	4 (37.0)
D13	1	14	68.40	4.89	2 (18.2)
Total	22	182	1214.77	6.66	48 (37.0)
Overall total	48	342	2470.49	7.22	89 (39.7)

Table 2. Chromosome tagging information of deviated segregation loci.

Chr.	Distorted to <i>G. hirsutum</i> (TM-1)	Distorted to <i>G. darwinii</i>	Distorted to F ₁	Total distorted loci	Frequency (%)
<i>A</i> genome					
A1	0	0	3	3	21.4
A2	2	0	0	2	15.4
A3	2	0	0	2	22.2
A4	1	0	0	1	11.1
A5	1	0	1	2	14.3
A6	1	1	1	3	16.7
A7	1	1	1	3	37.5
A8	0	0	1	1	50.0
A9	0	1	0	1	8.3
A10	2	0	1	3	21.4
A11	2	1	0	3	25.0
A12	0	1	0	1	9.1
A13	2	1	1	4	30.8
Total	14	6	9	29	19.5
<i>D</i> genome					
D1	2	0	0	2	10.0
D2	0	1	3	4	26.7
D3	1	0	0	1	5.0
D4	0	0	0	0	0.0
D5	5	0	2	7	38.9
D6	0	0	0	0	0.0
D7	1	4	4	9	56.3
D8	0	2	1	3	25.0
D9	2	1	0	3	25.0
D10	0	0	0	0	0.0
D11	1	0	1	2	12.5
D12	1	0	0	1	16.7
D13	2	0	1	3	21.4
Total	15	8	12	35	18.8
Overall total	29	14	21	64	19.1

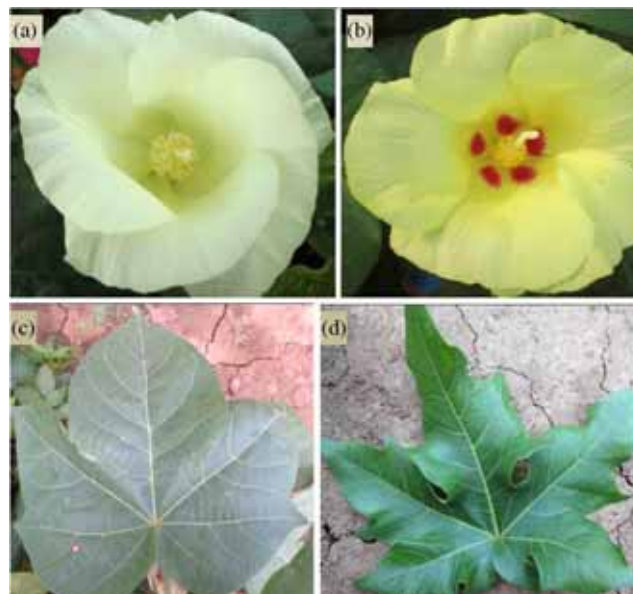


Figure 1. Morphology of flower and leaf of the two parents. (a) The flower of TM-1 with cream petal, no petal with red spot and cream pollen. (b) The flower of *G. darwinii* with yellow petal, red spot and yellow pollen. (c) Normal-shaped leaf of TM-1. (d) Okra leaf of *G. darwinii*.