

Supplementary data:

Genetic diversity, population structure and marker trait associations for seed quality traits in cotton (*Gossypium hirsutum*)

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J. Genet. **94**, 87–94

Table 1. List of cotton germplasm lines used in this study.

Germplasm no.	Cultivar	Region	Germplasm no.	Cultivar	Region
LA1	LA1110001	Louisiana	Ark16	04PST-250	Arkansas
LA2	LA1110147	Louisiana	Ark17	04PST-246	Arkansas
LA3	LA1110148	Louisiana	SE1	AU-5491	South eastern
LA4	LA03404204	Louisiana	SE2	AU1065	South eastern
LA5	LA01407117	Louisiana	SE3	AU1107	South eastern
LA6	LA01407009	Louisiana	SE4	AU1403	South eastern
LA7	LA1110023	Louisiana	SE5	AU5210	South eastern
LA8	LA1110035	Louisiana	SE6	AU6207	South eastern
LA9	LA03404148	Louisiana	SE7	AU-6103	South eastern
LA10	LA03404171	Louisiana	SE8	AU-5367	South eastern
LA11	LA03404065	Louisiana	SE9	GA2002212	South eastern
LA12	LA1110061	Louisiana	SE10	GA2003118	South eastern
LA13	LA01407074	Louisiana	SE11	GA2003156	South eastern
LA14	LA01407072	Louisiana	SE12	GA3003131	South eastern
LA15	LA04307004	Louisiana	SE13	GA-2004089	South eastern
LA16	LA04307074	Louisiana	SE14	GA-2004303	South eastern
LA17	LA04307063	Louisiana	SE15	GA-2004230	South eastern
LA18	LA1110014	Louisiana	SE16	PD03001	South eastern
LA19	LA03404051	Louisiana	SE17	PD03011	South eastern
LA20	LA04308044	Louisiana	SE18	PD3025	South eastern
LA21	LA04307027	Louisiana	SE19	PD99036	South eastern
LA22	LA-05307083	Louisiana	SE20	PD99041	South eastern
LA23	LA05307029	Louisiana	SE21	PD-04012	South eastern
LA24	LA-0530761	Louisiana	SE22	COKER100	South eastern
LA25	LA05307094	Louisiana	Delta 1	DP 393a	Delta
Ark1	9801-37-04	Arkansas	Delta 2	DP 393b ^x	Delta
Ark2	9811-15-07	Arkansas	Delta 3	SG 105 ^x	Delta
Ark3	9815-05-09	Arkansas	Delta 4	SG 747 ^x	Delta
Ark4	9803-17-04	Arkansas	SW 1	ACALA1517-99	Southwest
Ark5	9803-23-04	Arkansas	SW 2	NM-3012	Southwest
Ark6	9801-37-04	Arkansas	SW 3	PX03203-25-2	Southwest
Ark7	0015-06-11	Arkansas	FM 958	FM 958 ^x	Texas
Ark8	0147-22ne	Arkansas	Texas 1	TAMB182-34	Texas
Ark9	0110-2ne	Arkansas	Texas 2	TM-1	Texas
Ark10	0141-15ne	Arkansas	Texas 3	MCNAIR235	Texas
Ark11	0020-31ne	Arkansas			
Ark12	0028-16ne	Arkansas			
Ark13	0149-17ne	Arkansas			
Ark14	8921-2-2-14-13-11	Arkansas			
Ark15	04-PST-275	Arkansas			

^x‘Sure-Grow 105’ (SG 105, PVP 9900190); ‘FiberMax 958’ (FM 958; PVP 200100208); ‘DP 393’ (PVP 200400266); ‘Sure-Grow 747’ (SG 747; PVP 9800118).

Table 2. Adapters and primers of AFLP marker system used for preamplification and selective amplification.

Primer/adaptor	Nomenclature	Sequence (5'–3')
<i>EcoRI</i> primers		
<i>EcoRI</i> linker 1	E-I	CTC GTA GAC TGC GTA CC
<i>EcoRI</i> linker 2	E-II	AAT TGG TAC GCA GTC TAC
<i>EcoRI</i> + A	E+A	GAC TGC GTA CCA ATT CA
E- AAC	E1	GACTGCGTACCAATTCAAC
E- AAG	E2	GACTGCGTACCAATTCAAG
E-ACA	E3	GACTGCGTACCAATTCAACA
E-ACT	E4	GACTGCGTACCAATTCACT
E-ACC	E5	GACTGCGTACCAATTCACC
E-ACG	E6	GACTGCGTACCAATTCACG
E-AGG	E8	GACTGCGTACCAATTCAGG
E-AGA	E9	GACTGCGTACCAATTCAGA
<i>MseI</i> primers		
<i>MseI</i> linker 1	M-I	GAC GAT GAG TCC TGA G
<i>MseI</i> linker 2	M-II	TAC TCA GGA CTC AT
<i>MseI</i> + C	M+C	GAT GAG TCC TGA GTA AC
M-CAA	M1	GATGAGTCCTGAGTAACAA
M-CAC	M2	GATGAGTCCTGAGTAACAC
M-CAG	M3	GATGAGTCCTGAGTAACAG
M-CAT	M4	GATGAGTCCTGAGTAACAT
M-CTA	M5	GATGAGTCCTGAGTAACTA
M-CTC	M6	GATGAGTCCTGAGTAACTC
M-CTG	M7	GATGAGTCCTGAGTAACTG
M-CTT	M8	GATGAGTCCTGAGTAACTT

Nomenclature is in accordance with Lacape *et al.* (2003); Myers *et al.* (2009).