

Supplementary data:

Development of SSR markers and construction of a linkage map in jute

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Table 1. Details of 66 polymorphic SSR, primary motif, complexity, type, primer sequences and expected product size.

GenBank acc. no.	Marker name	Primary motif	Complexity	Type	Forward primer (5'-3')	Reverse primer (5'-3')	Product size
1	JN699745	MJM 1030	(ac) ₁₂	Perfect	ATTGGTGGGAGTTTGGTTGA	TGGAGCAATAAACTTATAAAAAGAAATG	212
2	JN699747	MJM 1033	(tg) ₁₀ (ga) ₁₁	Perfect	CGCACATATCTAGGTGTGCAA	TCCTTTTCACTTCCCATTTC	227
3	JN699748	MJM 1042	(ct) ₁₀ (ct) ₇	Imperfect	GCATACCACGTGCTGTTTTG	GCAGAAAGAAATTA GAACAGAAAGAGAGA	229
4	JN699755	MJM 1059	(ga) ₁₈ .(ga) ₃ .(tg) ₃	Imperfect	TCAAAGGAAGACAACTAGCTCA	CCCACATAACTATTTTTGACACACA	201
5	JN699759	MJM 1064	(teac) ₁₂ .(cact) ₁₇	Imperfect	GGTCGCTCTGAGAATCAGGA	TCATTTACCGGCTTTTCACC	211
6	JN699760	MJM 1066	(ga) ₁₁ .(ga) ₃	Imperfect	AAAGAGGGTCAACAGATCG	CCACGTTTCTCGATGGTTTT	241
7	JN699761	MJM 1070	(ga) ₂₅ .(ga) ₈	Imperfect	CCAATTGTTAGGGCATCTT	AAGAAGAGGGAAAATGACCACA	246
8	JN699763	MJM 1072	(ga) ₁₃ .(tg) ₃	Imperfect	AAGCCCAATTTTTGTTTGA	TTCCCTCTCTCCACGCACT	199
9	JN699764	MJM 1077	(atc) ₇	Perfect	CATTGACATGAGCAACCACA	CAAACTAITTGACAAAGCACCA	209
10	JN699765	MJM 1079	(aac) ₉	Perfect	AGATCCTGCCACTGCATCT	ACATCTCCACCTCGATGTCA	157
11	JN699767	MJM 1084	(ttg) ₉	Perfect	CCGGTGTTTGCTTCTGAAAG	TGGAGTTAGGAATGGCGGTA	205
12	JN699768	MJM 1087	(tgt) ₁₀	Perfect	GGTCTATTATGAGATTTGGGTTGC	TGAAGCAGCAGATCCAACAA	222
13	JN699771	MJM 1098	(ttg) ₆	Perfect	TGATTCGCATAACGTTGTTGT	CAAATAC TGGGCAGCAACAG	166
14	JN699775	MJM 1114	(cag) ₅ (caa) ₈	Perfect	TTCCCCAAAACCTATCCTC	CTGGTCCCTGAAGACTGAGC	207
15	JN699776	MJM 1115	(ttg) ₇ .(ttg) ₃ .(ggt) ₃	Imperfect	CGTGCAACAACCTTGTGGTGT	CCAACTAATAATCGCCAAA	218
16	JN699778	MJM 1120	(gaa) ₈	Perfect	GGTTGGGGGAGAAACAGAC	AGCTTCGGAATGGGAACCT	224
17	JN699779	MJM 1128	(ttg) ₇ (ttc) ₈	Perfect	CCAAGAGTGGACATCTGGTG	CTTTC AATCTGTGCAACCA	198
18	JN699780	MJM 1129	(aga) ₄₁	Perfect	TCGTCCCTCAICATTTTCT	TCGGACCAGGAATTTTACCTTC	210
19	JN699781	MJM 1130	(gaa) ₁₅	Perfect	TGTGTAGAGCACCATAACCC	GAACATCGTCCAACATGATCC	226
20	JN699782	MJM 1132	(aag) ₉	Perfect	GATGTAAGCAGCCGGAATGT	GTTTGTTTTCTTCCACACACA	201
21	JN699783	MJM 1133	(aag) ₁₃ (agg) ₄	Perfect	CACGAGGCTCTAAAGTTTC	TCAGACGGAGCAIATGATGG	200
22	JN699784	MJM 1134	(ctc) ₁₀	Perfect	CAGCAGGCTTCCATCATA	AAGGATGATGATTCGCAGT	217
23	JN699785	MJM 1136	(ttc) ₇	Perfect	GGCAGGTCACGTGATTCATT	TTAGCCGACTACCCGACTTG	236
24	JN699786	MJM 1137	(ttc) ₈	Perfect	GCCTGGAATGGAACACAAGT	GCTTGCTAFTCGTGATCAAA	229
25	JN699787	MJM 1138	(ctc) ₇	Perfect	CCTGGTAGCCCTTTAGTT	GTTTGGGATGAAAATTTGGTG	179
26	JN699788	MJM 1139	(gaa) ₇	Perfect	AGGAACGGCTGGGTTTTAT	TCATCAAAAACGCCAAAAGCTA	201
27	JN699789	MJM 1140	(ttc) ₂₈	Perfect	GCTGTCACCTGCCAATCTTT	TGCTTGTGTTGCTGATFAGG	185
28	JN699791	MJM 1142	(ttc) ₁₀	Perfect	GGGTCTATCTAGGGGCTGGA	ATGGGGTTAAAGCAAAACCAA	193

Table 1 (contd).

GenBank acc. no.	Marker name	Primary motif	Complexity	Type	Forward primer (5'-3')	Reverse primer (5'-3')	Product size
29	JN699793	MJM 1148	Imperfect	Compound	CTGCAGGAAGGAGAAAGAGGA	TCCATTCCATGACCCCATTTT	155
30	JN699795	MJM 1150	Perfect	Simple	TCTCCGTAACCCCTTGGCAATC	GCCAAAACCAAAAGTTACGC	231
31	JN699796	MJM 1156	Perfect	Simple	CCAAATTTGGCCGAAAATAA	AAATGGCCCTCTCTCATCC	158
32	JN699797	MJM 1166	Imperfect	Simple	CAAGCTATCCACCCTTTT	CCTTGACGAATATTGACAGTGA	212
33	JN699798	MJM 1169	Imperfect	Simple	TGCAGATGGAACACACACA	TACATAAGGAGGCCACAGA	222
34	JN699799	MJM 1182	Imperfect	Compound	TGCATTGATTACATGGTATGGA	CACTAAGTTGCATCTCCCAA	176
35	JN699800	MJM 1195	Imperfect	Simple	GAGGCTGACAGGAGTGTTA	CCTAAAACCCAGACGAACA	171
36	JN699801	MJM 1222	Perfect	Simple	CAGGACTCCCTTAAACAAA	GGGAGGCATCTGATTGAAA	240
37	JN699802	MJM 1227	Perfect	Compound	GAACAAGATGAACCGAAGG	CATTGCTTCCCATTTTGA	214
38	JN699803	MJM 1244	Perfect	Simple	AGCTAGCTTGGCCGTTTGA	TCAAATTAGTCGAGATTTGTGA	212
39	JN699804	MJM 1253	Perfect	Simple	CCTCAGCCATTAAACAATGC	TGCCCTTCTCTCTTTGCTC	200
40	JN699805	MJM 1258	Perfect	Simple	CTCTGATTCCGTAAACTCGTCA	AAGATGCGAGCTGTAAATGC	246
41	JN699743	MJM 1261	Imperfect	Simple	GCAGATGCGAGCTAGTCTT	GCCCATTTTCGTTTCATTT	187
42	JN699743	MJM 1262	Perfect	Simple	GACGGGAAGAAGAAAGGAG	GTGTAAGAAAGGGGACGGTGA	170
43	JN699744	MJM 1263	Perfect	Simple	GCCCTGATTTGGGTTAAAA	TAGCCCAAGACCCAGAGTTA	200
44	JN699744	MJM 1264	Perfect	Simple	TAACCTGGGCTCTGGGCTA	GCCAGAACAGACATGAAACC	191
45	JN699806	MJM 1265	Imperfect	Compound	ATCTGGCAAGGGGAAGAAGT	AAAATCGAACGACACCCGTTT	227
46	JN699807	MJM 1266	Perfect	Simple	AAGGTGAAACGGTGTCTGTTT	CGTTATCGGGATGGGTTAAA	199
47	JN699808	MJM 1267	Perfect	Simple	GGGCTTCGGTTAGGGAGTAG	CGTCGAGTAAAGTGGCCCTA	179
48	JN699809	MJM 1271	Imperfect	Simple	GCCCTTCTGCTGATCTTCG	CAGTGTGATGGTTCACAACG	164
49	JN699810	MJM 1275	Perfect	Simple	AAAGGATGAATGGGGAAAC	GAGATAACGAACGGGTGGAG	214
50	JN699811	MJM 1277	Imperfect	Simple	GGAGATCGACGGATTCCATA	TCCTTCATCCCAAAATCAGC	211
51	JN699812	MJM 1288	Perfect	Simple	AAAACCTCCCATTTGGTCTCT	GCGGTATTCAAAGGATGAGA	206
52	JN699813	MJM 1305	Perfect	Simple	ACTACAAAAGACAGAAATAGGAAAA	ATGTGGACCAAAATTAATGC	150
53	JN699814	MJM 1306	Imperfect	Simple	ACACGTGTGTACAGCGAGGA	CGGAAGATGACGAAGAGGAA	218
54	JN699815	MJM 1317	Perfect	Simple	GAAGCAGGGAGAACCCGTGTA	TCGAAACTCTCCCAAATTC	197
55	JN699816	MJM 1324	Perfect	Compound	ATCTGCTGGTGGTCCAGATT	TTGTGTTGCTGGGCTATCAG	181
56	JN699817	MJM 1326	Perfect	Simple	GATGCATTGCAGAAATGTTGG	CCACACCCATCAACAACCGAC	110
57	JN699818	MJM 1340	Imperfect	Simple	CCATCAACACCCACCTAATGCT	GCACAATCACCAACCAAT	191
58	JN699819	MJM 1386	Perfect	Simple	TCGCTGATATGGTGTATGCTT	TCGTGGAAGAGAAACGAGGAG	235
59	JN699820	MJM 1387	Imperfect	Compound	TGATTTTGGCTTGTCTTG	TGGTCAATCATCATCAGCATC	180
60	JN699821	MJM 1388	Perfect	Simple	CGAATTTGCTAATTTGGTGGT	CGTGCAAAAAGAACGTCACAAG	194
61	JN699822	MJM 1389	Imperfect	Simple	(ct) ₈ .(tc) ₃	TTGTCTGCTTCAAGCGTTA	157
62	JN699823	MJM 1390	Imperfect	Simple	(ga) ₂₀ .(ga) ₁₆	TCCGTCGGATATGGATTA	209
63	JN699824	MJM 1391	Imperfect	Compound	(ct) ₃ .(ag) ₃ .(ga) ₁₁	ACCTCCTCGACCTTGGTTTC	246
64	JN699825	MJM 1396	Imperfect	Compound	(ttc) ₇ .(ctt) ₆ .(tct) ₄	CAGGTGCTGAAGGTGAAAGAA	249
65	JN699826	MJM 1399	Imperfect	Compound	(gac) ₃ .(gaa) ₅ .(agg) ₃ , (agg) ₆ .(agg) ₅	ATCGTGTGCTGCTTTGCTG	224
66	JN699827	MJM 1401	Imperfect	Compound	(aag) ₃ .(caa) ₅ .(aag) ₃ , (atc) ₃ .(aga) ₈ (gaa) ₃ .(gaa) ₆	GACTCCTTGGTGGTGTCTCCTC	229

^aCommas indicate gap between the two motifs.