

Supplementary Data

Genetic diversity revealed utility of SSR markers in classifying parental lines and elite genotypes of sorghum (*Sorghum bicolor* L. Moench)

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Supplementary table 1: Details of the sorghum genotypes used for SSR diversity studies.

S.No	Genotype	Pedigree	Group	Season of adaptation
1	IS 18144	Breeding material from Beirut (Race <i>Caudatum-Bicolor</i>)	Germplasm	Rainy
2	IS 1130	Landrace from Kanki, Bihar, India (Race <i>Bicolor</i>)	Germplasm	Rainy
3	IS 24996	Landrace from sub-saharan Africa (Race <i>Guinea-Caudatum</i>)	Germplasm	Rainy
4	IS 24995	Landrace from sudan (Race <i>Guinea-Caudatum</i>)	Germplasm	Rainy
5	IS 8525	Breeding material from Ethiopia (Race <i>Caudatum</i>)	Germplasm	Rainy
6	SP55666-1	Germplasm line from ICRISAT, India	Germplasm	Rainy
7	IS 18551	Originated from Ethiopia (Race <i>Durra</i>)	Germplasm	Rainy
8	PMS 28B	Selection from 296 B (296B × ICSB 94040B)	Maintainer	Rainy
9	SP 55609B	IS 7672 × ICSB 16)-1-16-1-1-1-2	Maintainer	Rainy
10	PMS 71B	ICSV 6937 B × 55301	Maintainer	Rainy
11	PMS 74 B	SSABT (ICSB 70 × PMS 1861)	Maintainer	Rainy
12	PMS 42B	PMS 28B × ICSV 94040	Maintainer	Rainy
13	PMS 77 B	Selection form ICSB 55301-1	Maintainer	Rainy
14	PMS 90B	PMS 28B × 1046B	Maintainer	Rainy
15	11B2	Rainy season breeding line from DSR, India	Maintainer	Rainy
16	27B	83B × 199B	Maintainer	Rainy
17	296B	IS 3922 × Karad local	Maintainer	Rainy
18	AKMS30B	(2077B × B 573197 × 296 B)	Maintainer	Rainy
19	AKMS36B	Selection from ICS 70 B	Maintainer	Rainy
20	IMS9B	2077A × (MA 9B × Vidisha 60-1) 11-4-2-5-5A	Maintainer	Rainy
21	70B	Rainy season breeding line	Maintainer	Rainy
22	NR 11- R07	Rainy season breeding line from DSR, India	Restorer	Rainy
23	KR 191	Selection form ICSR 91006	Restorer	Rainy
24	KR 196	Early SPS × SPV 1023	Restorer	Rainy
25	KR 199	Developed from IS 93094	Restorer	Rainy
26	AKR 436	Selection from MBSS 9242	Restorer	Rainy
27	AKR 73	SPV 102 × SPV 135	Restorer	Rainy
28	C 43	CS 3541× IS 23549	Restorer	Rainy
29	Indore12	(SSV 53 × SPV 475)-7-1-1-1	Restorer	Rainy
30	Indore 23	Breeding line from Indore, India	Restorer	Rainy
31	Indore 26	SPV 1333 × RS 673	Restorer	Rainy
32	Indore 27	(IS 73210 × SPV 1428) × (SPV 1333×RS 673)	Restorer	Rainy
33	Indore 29	I-12 × IS 25017)	Restorer	Rainy
34	RS 29	SC 108 × SPV 126	Restorer	Rainy
35	RS 627	RS 71× M 35-1	Restorer	Rainy
36	F5 -32	PVK 801 × PVK 809	Restorer	Rainy
37	AKR 354	SPV 504 (20KR) × (SPV 504 × R 263) × R-67-4	restorer	Rainy
38	SPV 1474 (PVK 809)	PVK 801 × SOV 881	variety	Rainy
39	SSV 74	Selection from PAB 74	Variety	Rainy
40	SSV 84	Selection from Zera – Zera sorghum IS 23568 (Ethiopia)	Variety	Rainy
41	ICSV 705	[(125/R × EW 3257-4) × -1-5-6-1-1-1 × (SC 108-3 × CS 3541)-19-1]-3-1-2-3-3	Variety	Rainy
42	ICSV 93046	[(IS 1082 × SC 108-3)-1-1-1-1-1) × ((IS 5622 × CS 3541)-20-1-1-1-1-1-1 × (UChV2 × Bulk Y-55)-1-5-1)-5-2-5-1-1)]-9-1-3-1-1-1	Variety	Rainy

	SPV 1333(Parbhani Sweta/PVK 801)	Selection from ICRISAT population GD 34-5-5-3	Variety	Rainy
43	SLB 9	(104B × SPV-1538)-5	Maintainer	Post-rainy
44	SLB 25	104B × Sel-IS-40275-1	Maintainer	Post-rainy
45	SLB 29	104B × Sel-IS-3420-2	Maintainer	Post-rainy
46	SLB 45	104B × Sel-IS – 33823-1	Maintainer	Post-rainy
47	SLB 46	104B × Sel-IS –5789-1	Maintainer	Post-rainy
48	SLB 49	104B × Sel- IS- 18370-1	Maintainer	Post-rainy
49	SLB 50	104B × Sel- IS- 4070-1	Maintainer	Post-rainy
50	SLB 55	104B × Sel- IS- 17708-1	Maintainer	Post-rainy
51	NLS 100	Phule yashoda × moti 100	restorer	Post-rainy
52	SLR 10	(SPV-1537 × RS-585)-5-2	Restorer	Post-rainy
53	SLR 13	(SPV-1538 × NIC-21240)	Restorer	Post-rainy
54	SLR 17	(RS-615 × SPV-1537)—3-2	Restorer	Post-rainy
55	SLR 24	(SPV-1155 × Sel-3)-4-1	Restorer	Post-rainy
56	SLR 27	(SPV-1375 × Sel-3)-12-18	Restorer	Post-rainy
57	SLR 30	(SPV-1376 × SPV-1155)-2-8	Restorer	Post-rainy
58	SLR 60	Sel-IS-33832-1	Restorer	Post-rainy
59	SLR 61	Sel-IS-33829-1	Restorer	Post-rainy
60	SLR 62	Sel-SLK-15-1	Restorer	Post-rainy
61	SLR 65	Sel-IS-33842-1	Restorer	Post-rainy
62	SLR 66	Sel-IS-40243-1	Restorer	Post-rainy
63	SLR 68	Sel-IS-15058-2	Restorer	Post-rainy
64	SLR 70	Sel-IS-33756-1	Restorer	Post-rainy
65	SLR 73	Sel- PEC-8-1	Restorer	Post-rainy
66	SLR 92	Sel-EP-109-2	Restorer	Post-rainy
67	RR2145	RSCR 3 × Sel-3	restorer	Post-rainy
68	RS 585	(CS 3541 × M 35-1) × Nandyal post-rainy local	Restorer	Post-rainy
69	TNS 30	(CO-18 × CO-22) × 1022	Restorer	Post-rainy
70	BRL148	Breeding line from Bijapur, India	Restorer	Post-rainy
71	CRS 14	SPV 655 × SPV 1538	Restorer	Post-rainy
72	PVR 453	Selection form local land race Nandkheda	Variety	Post-rainy
73	CSV 14RB (SPV 839)	M 35-1 × (CS 2947 × CS 2644) × M 35-1	Variety	Post-rainy
74	Phule Chitra	SPV 655 × RSLG 112	Variety	Post-rainy
75	Phule Vasudha	RSLG 206 × SPV 1047	Variety	Post-rainy
76	Ruddewadi-2	Landrace from Bijapur, India	Variety	Post-rainy
77	BJV 74	Variety from Bijapur, India	Variety	Post-rainy
78	M 35-1	Selection from maldandi land races	Variety	Post-rainy
79	CSV 216R	Selection from post-rainy land race	Variety	Post-rainy
80	SPV 1411(Parbhani Moti)	Selection from ICRISAT population GD 31-4-2-3	variety	Post-rainy
81	SPV 1595 (CSV 18)	Selection from CR 4× IS 18370	Variety	Post-rainy
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