

Table 7 List and characteristics of the SSR markers used for the sorghum diversity analysis in this study

No	Marker	LG	Forward_Primer	Reverse_Primer	Annealing_Tm	Size (bp)
1	gpsb067	8	TAGTCCATACACCTTTCA	TCTCTCACACACATTCTTC	49	160–190
2	gpsb123	8	ATAGATGTTGACGAAGCA	GTGGTATGGGACTGGA	50	284–304
3	mSbCIR223	2	CGTTCCAATGACTTTTCTTC	GCCAATGTGGTGTGATAAAT	55	104–124
4	mSbCIR238	2	AGAAGAAAAGGGGTAAGAGC	CGAGAAACAATTACATGAACC	55	69–129
5	mSbCIR240	8	GTTCTTGGCCCTACTGAAT	TCACCTGTAACCCTGTCTTC	55	104–180
6	mSbCIR246	5	TTTTGTTGCACTTTTGAGC	GATGATAGCGACCACAAATC	55	86–114
7	mSbCIR248	10	GTTGGTCAGTGGTGGATAAA	ACTCCCATGTGCTGAATCT	56	79–111
8	mSbCIR262	7	GCACCAAATCAGCGTCT	CCATTTACCCGTGGATTAGT	57	208–446
9	mSbCIR276	3	CCCCAATCTAACTATTTGGT	GAGGCTGAGATGCTCTGT	53	222–252
10	mSbCIR283	7	TCCCTTCTGAGCTTGTAAT	CAAGTCACTACCAAATGCAC	54	111–157
11	mSbCIR300	5	TTGAGAGCGGCGAGGTAA	AAAAGCCCAAGTCTCAGTGCTA	61	74–118
12	mSbCIR306	1	ATACTCTCGTACTCGGCTCA	GCCACTCTTTACTTTTCTTCTG	55	118–126
13	mSbCIR329	10	GCAGAACATCACTCAAAGAA	TACCTAAGGCAGGGATTG	54	73–121
14	Xcup14	3	TACATCACAGCAGGGACAGG	CTGGAAAAGCCGAGCAGTATG	54	209–251
15	Xcup53	1	GCAGGAGTATAGGCAGAGGC	CGACATGACAAGCTCAAACG	54	182–202
16	Xcup61	3	TTAGCATGTCCACCACAACC	AAAGCAACTCGTCTGATCCC	54	189–204
17	Xcup63	2	GTAAAGGGCAAGGCAACAAG	GCCCTACAAAATCTGCAAGC	54	127–163
18	Xtxp010	6	ATACTATCAAGAGGGGAGC	AGTACTAGCCACACGTCAC	50	119–155
19	Xtxp012	4	AGATCTGGCGGCAACG	AGTCACCCATCGATCATC	55	143–215
20	Xtxp015	10	CACAAACACTAGTGCCTTATC	CATAGACACCTAGGCCATC	55	197–273
21	Xtxp021	4	GAGCTGCCATAGATTGGTCG	ACCTCGTCCCACCTTTGTTG	60	151–227
22	xtxp040	5	CAGCAACTTGCACTTGTC	GGGAGCAATTTGGCACTAG	55	108–144
23	Xtxp057	9	GGAACTTTTGACGGGTAGTGC	CGATCGTGATGTCCAATC	55	213–285
24	Xtxp136	10	GCGAATAGCATCTTACAACA	ACTGATCATTGGCAGGAC	55	240–246
25	Xtxp141	7	TGTATGGCCTAGCTTATCT	CAACAAGCCAACCTAAA	55	133–175
26	Xtxp145	9	GTTCTCCTGCCATTACT	CTTCCGCACATCCAC	55	204–278
27	Xtxp265	9	GTCTACAGGCGTGCAAATAAA	TTACCATGCTACCCCTAAAAGT	55	168–246
			A	GG		
28	Xtxp278	5	GGGTTTCAACTCTAGCCTACC GAACTTCCT	ATGCCTCATCATGGTTCGTTTTG CTT	50	225–318
29	Xtxp321	8	TAACCCAAGCCTGAGCATAAGA	CCCATTACACATGAGACGAG	55	180–252

Note: The SSR primers were from Generation Challenge Program (GCP) global marker elaborated and described by Menz et al., 2002 and Kim et al., 2005, LG = linkage groups