

Genetic diversity among tropical maize inbred lines as revealed by SSR markers

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Supplementary Table 1. Genetic information revealed by 100 SSR markers amplified on 30 maize inbred lines.

Locus	NR	Bin	PPB	n _a	n _e	PIC	Hom _o	H _o	I	Nei's	F _{ST}	Nm _F
umc1166	2	1.02	10.00	3	1.71	0.354	1.000	0.000	0.693	0.416	1.000	0.000
bnlg1429	2	1.02	13.33	4	2.90	0.595	1.000	0.000	1.188	0.656	1.000	0.000
umc1467	3	1.02	6.67	2	1.99	0.374	1.000	0.000	0.691	0.498	1.000	0.000
bnlg2238	2	1.04	13.33	4	2.57	0.533	1.000	0.000	1.066	0.611	1.000	0.000
bnlg1598	2	1.06	16.67	5	3.16	0.640	1.000	0.000	1.335	0.683	1.000	0.000
umc1278	2	1.07	33.33	10	8.53	0.871	1.000	0.000	2.220	0.883	1.000	0.000
umc1298	3	1.09	10.00	3	1.93	0.395	1.000	0.000	0.768	0.482	1.000	0.000
bnlg1331	2	1.09	16.67	5	3.47	0.661	1.000	0.000	1.363	0.712	1.000	0.000
umc1306	2	1.09	16.67	5	3.55	0.674	1.000	0.000	1.413	0.718	1.000	0.000
umc1797	2	1.12	33.33	10	5.41	0.794	0.967	0.033	1.942	0.815	0.980	0.005
umc1227	3	2.01	10.00	3	2.63	0.542	1.000	0.000	1.022	0.620	1.000	0.000
umc1165	2	2.01	16.67	5	4.03	0.708	0.967	0.033	1.456	0.752	0.978	0.006
umc1552	3	2.01	10.00	3	2.41	0.519	1.000	0.000	0.983	0.584	1.000	0.000
umc1024	2	2.04	16.67	5	3.88	0.699	1.000	0.000	1.441	0.742	1.000	0.000
bnlg108	2	2.04	16.67	5	2.68	0.562	1.000	0.000	1.170	0.627	1.000	0.000
umc1536	5	2.07	10.00	3	2.23	0.485	1.000	0.000	0.928	0.551	1.000	0.000
umc1604	3	2.08	6.67	2	1.87	0.357	1.000	0.000	0.657	0.464	1.000	0.000
bnlg1520	2	2.09	30.00	9	6.49	0.828	0.966	0.035	1.990	0.846	0.981	0.005
phi101049	4	2.10	20.00	6	4.47	0.743	1.000	0.000	1.611	0.776	1.000	0.000
umc1394	2	3.01	10.00	3	1.34	0.234	1.000	0.000	0.490	0.253	1.000	0.000
umc1892	2	3.01	13.33	4	2.98	0.597	1.000	0.000	1.170	0.664	1.000	0.000

bng1144	NA	3.02	23.33	7	6.23	0.820	0.933	0.067	1.889	0.839	0.960	0.010
bng1523	2	3.03	23.33	7	2.33	0.548	1.000	0.000	1.271	0.571	1.000	0.000
umc2369	4	3.03	16.67	5	3.31	0.648	1.000	0.000	1.335	0.698	1.000	0.000
bnlg1447	2	3.03	26.67	8	4.41	0.749	1.000	0.000	1.752	0.773	1.000	0.000
Locus	NR	Bin	PPB	n _a	n _e	PIC	Hom _o	H _o	I	Nei's	F _{ST}	Nm _F
bnlg1035	2	3.05	20.00	6	4.37	0.736	1.000	0.000	1.590	0.771	1.000	0.000
umc1027	2	3.06	13.33	4	3.32	0.639	0.731	0.269	1.253	0.699	0.849	0.044
bnlg1798	2	3.06	26.67	8	6.32	0.823	1.000	0.000	1.942	0.842	1.000	0.000
umc1844	2	3.08	16.67	5	2.04	0.464	0.964	0.036	0.983	0.511	0.971	0.008
umc1639	5	3.10	6.67	2	1.25	0.178	1.000	0.000	0.349	0.198	1.000	0.000
bnlg1098	2	3.10	23.33	7	3.19	0.646	0.654	0.346	1.439	0.686	0.804	0.061
umc1294	3	4.02	26.67	8	5.76	0.804	1.000	0.000	1.877	0.827	1.000	0.000
umc1963	NA	4.04	6.67	2	1.92	0.365	1.000	0.000	0.673	0.480	1.000	0.000
umc1652	3	4.04	10.00	3	1.64	0.350	1.000	0.000	0.697	0.390	1.000	0.000
phi026	2	4.05	26.67	8	4.28	0.738	0.793	0.207	1.686	0.766	0.872	0.037
bnlg1937	2	4.05	10.00	3	2.17	0.468	1.000	0.000	0.900	0.538	1.000	0.000
umc1031	2	4.05	33.33	10	8.45	0.870	1.000	0.000	2.215	0.882	1.000	0.000
bng1784	2	4.07	16.67	5	3.04	0.616	1.000	0.000	1.262	0.671	1.000	0.000
bnlg1444	2	4.08	43.33	13	8.67	0.874	1.000	0.000	2.339	0.885	1.000	0.000
umc1699	2	4.10	13.33	4	1.85	0.407	0.967	0.033	0.830	0.458	0.964	0.009
bnlg1917	2	4.10	40.00	12	6.00	0.819	1.000	0.000	2.119	0.833	1.000	0.000
umc1679	3	5.01	13.33	4	2.92	0.592	1.000	0.000	1.182	0.658	1.000	0.000
umc1692	4	5.03	13.33	4	3.16	0.633	1.000	0.000	1.263	0.684	1.000	0.000
umc1935	2	5.03	20.00	6	3.21	0.656	1.000	0.000	1.438	0.689	1.000	0.000
umc2406	3	5.04	6.67	2	2.00	0.375	1.000	0.000	0.693	0.500	1.000	0.000
umc1192	4	5.04	13.33	4	2.98	0.597	1.000	0.000	1.170	0.664	1.000	0.000
umc1348	2	5.05	6.67	2	1.96	0.370	1.000	0.000	0.683	0.490	1.000	0.000
umc1264	3	5.05	10.00	3	1.69	0.347	1.000	0.000	0.680	0.407	1.000	0.000
umc1155	2	5.05	10.00	3	2.95	0.587	1.000	0.000	1.090	0.661	1.000	0.000
umc1680	2	5.06	16.67	5	3.08	0.634	1.000	0.000	1.333	0.675	1.000	0.000
Locus	NR	Bin	PPB	n _a	n _e	PIC	Hom _o	H _o	I	Nei's	F _{ST}	Nm _F
bnlg1118	2	5.07	20.00	6	3.84	0.699	1.000	0.000	1.511	0.740	1.000	0.000
umc1143	5	6.00	6.67	2	1.92	0.365	1.000	0.000	0.673	0.480	1.000	0.000
bnlg1371	2	6.01	33.33	10	5.60	0.802	1.000	0.000	1.973	0.821	1.000	0.000
bnlg2191	2	6.02	23.33	7	4.91	0.770	1.000	0.000	1.754	0.796	1.000	0.000
umc1887	3	6.03	10.00	3	1.50	0.294	1.000	0.000	0.591	0.331	1.000	0.000
umc1014	2	6.04	16.67	5	3.21	0.643	1.000	0.000	1.338	0.689	1.000	0.000
phi452693	4	6.04	16.67	5	4.19	0.720	1.000	0.000	1.485	0.762	1.000	0.000
bnlg1154	2	6.05	23.33	7	4.56	0.748	1.000	0.000	1.670	0.781	1.000	0.000
umc1912	3	6.06	13.33	4	3.44	0.656	1.000	0.000	1.301	0.709	1.000	0.000
bnlg1521	2	6.08	23.33	7	5.26	0.786	1.000	0.000	1.794	0.810	1.000	0.000
umc1127	2	6.08	16.67	5	2.87	0.590	1.000	0.000	1.217	0.651	1.000	0.000

umc1695	2	7.00	6.67	2	1.96	0.370	1.000	0.000	0.683	0.490	1.000	0.000
umc1426	5	7.00	10.00	3	2.27	0.481	1.000	0.000	0.924	0.559	1.000	0.000
phi034	3	7.02	10.00	3	2.33	0.499	1.000	0.000	0.952	0.571	1.000	0.000
bnlg1094	2	7.02	26.67	8	5.25	0.784	0.967	0.033	1.814	0.809	0.979	0.005
bnlg1305	2	7.03	16.67	5	3.99	0.707	1.000	0.000	1.471	0.749	1.000	0.000
bnlg1070	2	7.03	23.33	7	4.69	0.755	1.000	0.000	1.688	0.787	1.000	0.000
umc1029	2	7.04	36.67	11	6.62	0.832	1.000	0.000	2.090	0.849	1.000	0.000
phi328175	3	7.04	16.67	5	2.24	0.520	0.966	0.035	1.116	0.554	0.971	0.007
umc1154	2	7.05	13.33	4	3.36	0.653	1.000	0.000	1.299	0.702	1.000	0.000
phi116	4	7.06	16.67	5	3.67	0.679	1.000	0.000	1.396	0.728	1.000	0.000
umc1807	2	8.03	23.33	7	4.72	0.757	0.815	0.185	1.683	0.788	0.899	0.028
bnlg1863	2	8.03	26.67	8	5.72	0.803	1.000	0.000	1.875	0.825	1.000	0.000
umc1615	5	8.03	16.67	5	3.63	0.679	1.000	0.000	1.402	0.724	1.000	0.000
umc1858	2	8.04	30.00	9	5.36	0.788	1.000	0.000	1.861	0.813	1.000	0.000
bnlg1176	2	8.05	30.00	9	2.81	0.610	0.833	0.167	1.425	0.644	0.871	0.037
Locus	NR	Bin	PPB	n _a	n _e	PIC	Hom _o	H _o	I	Nei's	F _{ST}	Nm _F
umc1882	2	8.05	13.33	4	3.11	0.628	1.000	0.000	1.253	0.678	1.000	0.000
bnlg1152	2	8.06	40.00	12	8.01	0.863	1.000	0.000	2.253	0.875	1.000	0.000
bnlg1823	2	8.07	33.33	10	6.50	0.829	0.967	0.033	2.058	0.846	0.980	0.005
phi080	5	8.08	10.00	3	2.12	0.459	1.000	0.000	0.886	0.528	1.000	0.000
bnlg1131	2	8.09	13.33	4	3.51	0.663	0.967	0.033	1.313	0.715	0.977	0.006
umc1279	3	9.00	6.67	2	1.38	0.239	1.000	0.000	0.451	0.278	1.000	0.000
bnlg1724	2	9.01	13.33	4	3.00	0.607	1.000	0.000	1.215	0.667	1.000	0.000
bnlg1401	2	9.02	33.33	10	6.72	0.835	1.000	0.000	2.084	0.851	1.000	0.000
umc1033	2	9.02	30.00	9	6.89	0.838	0.897	0.103	2.024	0.855	0.942	0.015
bnlg1191	2	9.03	23.33	7	3.31	0.670	1.000	0.000	1.499	0.698	1.000	0.000
umc1492	3	9.04	16.67	5	2.86	0.612	1.000	0.000	1.287	0.651	1.000	0.000
umc1494	3	9.05	10.00	3	1.87	0.383	1.000	0.000	0.745	0.464	1.000	0.000
umc1191	2	9.07	16.67	5	4.09	0.717	1.000	0.000	1.521	0.755	1.000	0.000
bnlg279	NA	9.07	16.67	5	4.84	0.760	1.000	0.000	1.592	0.793	1.000	0.000
bnlg128	NA	9.07	23.33	7	5.06	0.777	1.000	0.000	1.765	0.802	1.000	0.000
umc1319	3	10.01	10.00	3	1.81	0.373	1.000	0.000	0.728	0.447	1.000	0.000
phi063	4	10.02	23.33	7	5.45	0.791	1.000	0.000	1.782	0.817	1.000	0.000
bnlg210	NA	10.03	23.33	7	5.84	0.807	1.000	0.000	1.853	0.829	1.000	0.000
umc1336	5	10.03	13.33	4	3.30	0.641	1.000	0.000	1.273	0.697	1.000	0.000
bnlg1526	2	10.04	16.67	5	4.21	0.724	1.000	0.000	1.510	0.763	1.000	0.000
umc1930	2	10.04	10.00	3	2.54	0.539	1.000	0.000	1.014	0.607	1.000	0.000
bnlg1839	2	10.07	16.67	5	2.56	0.537	1.000	0.000	1.122	0.609	1.000	0.000
bnlg1360	2	10.07	26.67	8	5.80	0.806	0.931	0.069	1.886	0.828	0.960	0.010
bnlg1518	2	10.04	23.33	7	5.26	0.784	1.000	0.000	1.775	0.810	1.000	0.000
Mean			18.33	5.50	3.75	0.624	0.983	0.017	1.354	0.671	0.989	0.003

SD	8.67	2.60	1.75	0.170	0.055	0.055	0.472	0.152	0.033	0.010
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NR = number of repeat motifs, Bin = a sub-region on chromosome, PPB = percentage of polymorphic band, n_a = number of alleles, n_e = number of effective alleles, PIC = polymorphic information content, Hom_o = observed homozygosity, H_o = observed heterozygosity, I = Shannon's information index, Nei's = Nei's expected heterozygosity, F_{ST} = proportion of total inbreeding at a locus among inbred lines, Nm_F = gene flow estimated from F_{ST} , NA = number of repeats was not available in the database, and SD = standard deviation.