**S1: SSR genotyping of maize populations including *Murali Makkai***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SNo** | **Marker** | **Bin** | **SSR motif** | **Allele no.** | **PIC** |
| 1 | bnlg 1083 | 1.02 | (AG)29 | 4 | 0.61 |
| 2 | umc1353 | 1.10 | (AAC)4 | 2 | 0.66 |
| 3 | umc1128 | 1.07 | TC | 2 | 0.82 |
| 4 | phi064 | 1.11 | ATCC | 2 | 0.72 |
| 5 | umc1555 | - | Tetra repeat | 3 | 0.28 |
| 6 | bnlg1017 | 2.02 | (AG)18 | 1 | 0.5 |
| 7 | bnlg2077 | 2.07 | (AG)33 | 2 | 0.5 |
| 8 | umc1970 | 3.01 | - | 1 | 0 |
| 9 | umc2265 | 3.05 | (AGC)6 | 1 | 0 |
| 10 | bnlg490 | 4.04 | - | 2 | 0.53 |
| 11 | phi079 | 4.05 | AGATG | 1 | 0.31 |
| 12 | umc2200 | - | - | 1 | 0.56 |
| 13 | umc2139 | 4.09 | (GCC)4 | 1 | 0 |
| 14 | phi 076 | 4.11 | AGCGGG | 1 | 0 |
| 15 | umc2298 | 5.04 | (GCG)4 | 1 | 0.75 |
| 16 | umc 1056 | 5.03 | AGCA | 2 | 0.28 |
| 17 | umc2373 | - | - | 2 | 0.5 |
| 18 | umc1178 | 6.02 | (GGC)6 | 2 | 0.61 |
| 19 | umc2325 | 7.01 | (TGG)7 | 1 | 0.31 |
| 20 | umc 2332 | 7.04 | (CTC)5 | 1 | 0.31 |
| 21 | phi 065 | 9.03 | - | 1 | 0.31 |
| 22 | umc 2017 | 10.03 | (CAA)4 | 1 | 0.31 |

**Table S2: Profile of amplified fragments in Murali Makkai using SSR markers**

|  |  |  |
| --- | --- | --- |
| **SNo** | **Marker** | **Allele fragment size(bp)** |
| 1 | bnlg 1083 | 800, 350 |
| 2 | umc1353 | 220 |
| 3 | umc1128 | 150 |
| 4 | umc1555 | 400 |
| 5 | bnlg1017 | 175 |
| 6 | bnlg2077 | 150 |
| 7 | umc1970 | 150 |
| 8 | umc2265 | 120 |
| 9 | bnlg490 | 120 |
| 10 | phi079 | 400 |
| 11 | umc2200 | 350 |
| 12 | umc2139 | 250 |
| 13 | phi 076 | 250 |
| 14 | umc2298 | 100 |
| 15 | umc 1056 | 175 |
| 16 | umc2373 | 275 |
| 17 | umc1178 | 150 |
| 18 | umc2325 | 100 |
| 19 | umc 2332 | 150 |
| 20 | phi 065 | 150 |
| 21 | umc 2017 | 120 |