**Table 2** Characteristics of the genetic linkage groups of the mapping population AA0768

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Linkage group | TM | SSR | DArT | SNP | SD (%) | ML | AMD |
| 1 | 133 | 2 | 81 | 50 | 24 (18%) | 176.66 | 1.33 |
| 2A | 58 | 0 | 30 | 27 | 1 (1.7%) | 81.91 | 1.41 |
| 2B | 140 | 1 | 71 | 68 | 3 (2.1%) | 171.20 | 1.22 |
| 3 | 142 | 3 | 77 | 62 | 11 (7.7%) | 161.38 | 1.14 |
| 4 | 112 | 2 | 73 | 37 | 3 (2.7%) | 123.48 | 1.10 |
| 5 | 87 | 2 | 42 | 43 | 4 (4.6%) | 142.13 | 1.63 |
| 6 | 110 | 2 | 61 | 47 | 3 (2.7%) | 126.58 | 1.15 |
| 7 | 51 | 2 | 35 | 14 | 9 (17.6%) | 103.50 | 2.02 |
| 8 | 78 | 4 | 42 | 32 | 12 (15.4%) | 114.93 | 1.47 |
| 9 | 65 | 2 | 38 | 25 | 2 (3.1%) | 86.65 | 1.33 |
| 10 | 62 | 4 | 42 | 16 | 3 (4.8%) | 103.99 | 1.68 |
| 11 | 104 | 2 | 55 | 47 | 10 (9.6%) | 129.49 | 1.25 |
| 12 | 49 | 0 | 20 | 29 | 0 | 75.66 | 1.54 |
| 13 | 79 | 2 | 30 | 47 | 0 | 105.46 | 1.33 |
| 14 | 44 | 2 | 30 | 12 | 7 (15.9%) | 72.73 | 1.65 |
| 15 | 70 | 2 | 34 | 34 | 0 | 65.69 | 0.94 |
| 16 | 15 | 0 | 11 | 4 | 0 | 32.23 | 2.15 |
| Total | **1399** | **32** | **772** | **594** | **92 (6.6%)** | **1873.67** | **-** |
| Mean | 82.29 | 1.88 | 45.41 | 34.94 | 5.41 (6.6%) | 110.22 | 1.34 |
| Min | 15 | 0 | 11 | 4 | 0 | 32.23 | 0.94 |
| Max | 142 | 4 | 81 | 68 | 24 (18%) | 176.66 | 2.15 |

TM = Total number of markers for each linkage group

SD (%) = Number of markers that have significant segregation distortion at *p*<0.05 level and percentage as compared to total number of markers in the group

ML = Map length in centiMorgans (cM)

AMD = Average marker density in cM