

Table S2. Centromeric CRM2 Retrotransposon Display Markers.

| Name ¹ | GenBank Accession | BAC homology | Size (nt) | ZmB73v1 ² |
|-------------------|-------------------|-----------------------------|-----------|----------------------|
| 1_B_AGC204 | GF099546 | no hit | 204 | not mapped |
| 2_B_TGC288 | GF099549 | CH201-137F12 | 288 | 89,307,454 |
| 2_B_AGC189 | GF099557 | CH201-517P4 | 189 | 89,493,043 |
| 2_B_GCA370 | GF099559 | CH201-517P4 | 370 | 89,493,286 |
| 2_B_AGC345 | GF099548 | CH201-154H24, CH201-32G21 | 345 | 89,829,383 |
| 2_B_ACC381 | GF099564 | CH201-154H24 | 381 | 89,956,571 |
| 2_B_GCA137 | GF099565 | CH201-552J10 | 137 | 90,099,795 |
| 2_B_ACC194 | GF099553 | CH201-320J2 | 194 | 90,238,565 |
| 2_B_TTC348 | GF099562 | CH201-394D7 | 349 | 90,398,487 |
| 2_B_TCG152 | GF099554 | CH201-363H22 | 152 | 90,495,479 |
| 2_B_TGC260 | GF099555 | CH201-363H22 | 260 | 90,599,109 |
| 2_B_TGC205 | GF099551 | ZMMBBb-597K2, CH201-530G19 | 205 | 90,741,817 |
| 2_B_TTC183 | GF099560 | CH201-534P5 | 182 | 91,050,633 |
| 2_B_GAC236 | GF099561 | CH201-534P5 | 236 | 91,092,651 |
| 2_B_TGC178 | GF099550 | CH201-363H22 | 178 | not mapped |
| 2_B_TCG138 | GF099556 | CH201-530G19 | 138 | not mapped |
| 2_B_TGC188 | GF099558 | CH201-527D12 | 188 | not mapped |
| 2_B_GCA241 | GF099563 | CH201-394D7 | 241 | not mapped |
| 3_B_ACC205 | GF099568 | CH201-475I18 | 205 | 95,027,347 |
| 3_B_AGC310 | GF099571 | ZMMBBb-173J13 | 310 | 94,880,056 |
| 3_B_ACC245 | GF099572 | CH201-475I18 | 245 | 95,084,182 |
| 3_B_AGC144 | GF099569 | ZMMBBb-464B16 | 144 | not mapped |
| 4_B_TGC394 | GF099575 | ZMMBBb-522G8 | 394 | 104,339,158 |
| 5_B_TCG278 | GF099578 | CH201-425C22, CH201-730I0 | 278 | 101,481,735 |
| 5_B_ACC300 | GF099580 | CH201-124L17 | 300 | 102,113,056 |
| 5_B_TCG181 | GF099579 | CH201-124L17 | 181 | 102,115,031 |
| 6_B_TCG146 | GF099584 | CH201-567C5, CH201-430O5 | 146 | 50,002,743 |
| 6_B_ACC241 | GF099582 | ZMMBBb-597K2, CH201-530G19 | 241 | not mapped |
| 8_B_TGC202 | GF099590 | CH201-118G24 | 202 | 46,572,507 |
| 8_B_TGC354 | GF099591 | CH201-104L24 | 354 | 46,739,414 |
| 8_B_ACC181 | GF099585 | CH201-104L24, ZMMBBb-472G24 | 181 | 46,815,061 |
| 8_B_ACC165 | GF099594 | no hit | 165 | 47,014,890 |
| 8_B_ACC361 | GF099593 | CH201-161G22 | 361 | 47,463,710 |
| 8_B_TGC318 | GF099588 | CH201-161G22 | 318 | 47,463,754 |
| 8_B_TCG175 | GF099587 | CH201-161G22 | 175 | 47,531,459 |
| 8_B_ACC348 | GF099592 | CH201-161G22 | 348 | 47,531,459 |
| 8_B_ACC225 | GF099586 | CH201-161G22, ZMMBBb-76N16 | 225 | 47,619,173 |
| 8_B_AGC374 | GF099589 | CH201-325A22 | 374 | not mapped |
| 10_B_AGC240 | GF099596 | CH201-419B14 | 240 | 59,053,330 |
| 10_B_AGC221 | GF099595 | CH201-364K15 | 221 | 60,397,027 |

¹ Marker name consists of chromosome to which marker mapped in the IBM mapping population, inbred (B = B73), selective trinucleotide used for band amplification, and sequence length, separated by “_”.

² Reference chromosome coordinates are indicated when marker mapped to the correct reference chromosome with the highest bitscore (BLASTN).