Supplemental Table 2: Primers and restriction enzymes used for genetic mapping analysis

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chr.*I* | marker |  position (kb) | primers | restriction enzyme | Bristol digest (bp) | Hawaiian digest (bp) | DCO confirmation | Bristol digest (bp) | Hawaiian digest (bp) |
|   | A | 825 | F: CCTACAACAGGCAAAGAAGC | *Ssp*I | 643 | 324, 319 | repeat |   |   |
|   |   |  | R: AATTCCTACCAAAGCTCCGC |   |   |   |   |   |   |
|   | B | 2690 | F: TAATGTACCACCTCACGTGACG | *Bst*BI | 348 | 188, 160 | *Xmn*I | 348 | 158, 192 |
|   |   |  | R: CTTTCACCAGAACCCTCTATTC |   |   |   |   |   |   |
|   | C | 6351 | F: ATCATTCTCCAGGCCACGTTAC | *Nde*I | 594 | 300, 294 | repeat |   |   |
|   |   |  | R: CTGAACTAGTCGAACAAACCCC |   |   |   |   |   |   |
|   | D | 12606 | F: CTTGGTGTGGGGAGAGTATAGG | *Sau*3AI | 303, 63 | 207, 96, 63 | *Mnl*I | 15, 156, 196 | 15, 352 |
|   |   |  | R: TTTGTCCGGATTGACTCTGC |   |   |   |   |   |   |
|   | E | 14950 | F: CACAAGTGGTTTGGAAGTACCG | *Hind*III | 450 | 236, 214 | *Alu*I | 168, 283 | 168, 70, 213  |
|   |   |  | R: CAACAAAGGGATAGATCACGGG |   |   |   |   |   |   |
| Chr.  *V* | A | 537 | F: CCGCACTTCCTTCAGAAATG | *Bam*HI | 318 | 268, 50 | *Alw*I | 318 | 263, 43 |
|   |   |  | R: TGTAGGGCGAGTAACCAAGC |   |   |   |   |   |   |
|   | B | 6043 | F: GTTGTGAAAGTCGCGTTGAG | *Bsp*HI | 320, 207 | 527 | *Hpy188*III | 319, 208 | 527 |
|   |   |  | R: TTCGGTGTGTTGTCTGTAGTCG |   |   |   |   |   |   |
|   | C | 11998 | F: TTTCAGCTAGACCTCCCATG | *Hpy188*III | 578 | 326, 252 | repeat |   |   |
|   |   |  | R: ATCAATCACATGATGCCGT |   |   |   |   |   |   |
|   | D | 16578 | F: TTCATGACAAGCATCCAGTGTC | *Hpy*CH4IV | 215, 33 | 197, 33, 18 | *Bsa*AI | 219, 30 | 198, 21, 30 |
|   |   |  | R: AGCCGGGTAGAGAGCTAAAGTG |   |   |   |   |   |   |
|   | E | 20760 | F: TCCCCTCTACCAGATGCCTT | *Dra*I | 374, 101 | 475 | repeat |   |   |
|   |   |  | R: ACTGCTAGCTCAAATACTCCCA |   |   |   |   |   |   |