

S1. SSR markers screened for polymorphisms in donor plant DNA in order to identify the allelic status of anther-derived embryogenic structures of *Manihot esculenta* var. *Kirikawadi*.

| | Marker name | Sequence information 5' -3' | Annealing temperature (°C) |
|----|-------------|--|----------------------------|
| 1 | SSRY2 | CGCCTACCACTGCCATAAAC TGATGAAATTCAAAGCACCA | 58.50 |
| 2 | SSRY4 | ATAGAGCAGAAGTGCAGGCG CTAACGCACACGACTACGGA | 62.00 |
| 3 | SSRY8 | AGTGGTTTGAGAAGACTGGTGA TTTCCAAAATGGAACCTTCAAA | 57.40 |
| 4 | SSRY17 | CTTAGAAAAGAAATTGCATGTGAG TGTCTGATCAAGCTGGTGACA | 58.50 |
| 5 | SSRY20 | CATTGGACTTCCTACAAATATGAAT TGATGGAAAGTGGTTATGTCCTT | 57.80 |
| 6 | SSRY37 | ATGGCAAAAGATCGAGCAAC GGCCAGTAATTCCTCAAGGC | 60.00 |
| 7 | SSRY53 | CCATGCAGTAGTGCCATCTTT ATTTTCACCAACCGCAACTC | 59.60 |
| 8 | SSRY64 | CGACAAGTCGTATATGTAGTATTCACG GCAGAGGTGGCTAACGAGAC | 61.35 |
| 9 | SSRY69 | CGATCTCAGTCGATACCCAAG CACTCCGTTGCAGGCATTA | 60.00 |
| 10 | SSRY73 | AAGTTGATGGTTCTGAATCTGGA ACAGTGATTGAGCGAGGCTT | 60.50 |
| 11 | SSRY81 | GGCGATTTTCATGTCATGCTT TGATTTTCTGCGTGATGAGC | 58.50 |
| 12 | SSRY87 | CTCATCTCATGAAGAACTTGTGC AGAGCACGCATTGTGCATT | 60.00 |
| 13 | SSRY94 | AGGATGGACTTGGAGATGGA GGTGGAAGTAAGGCTGTTAGTG | 60.50 |
| 14 | SSRY107 | CCATTTTCTCTTGCTTCTGTCA TGGTTTGAAGTCCTATAAAATCCTT | 57.80 |
| 15 | SSRY110 | TTGAGTGGTGAATGCGAAAG AGTGCCACCTTGAAAGAGCA | 60.00 |
| 16 | SSRY114 | AACAGGAAGGAAAATCAAGCC TCAACTGCAGATTCATTCAAGA | 57.80 |
| 17 | SSRY128 | CAGGACATGACGCAATTCTG GCATGTAGAAGTCTTTGCAATTATG | 58.50 |
| 18 | SSRY162 | TTTAGTTAGTTGCGCTAGCTTCC AACTCTTAATGGCTAAAATTATTGATG | 57.80 |