**Supplementary Table 1** Thermal profiles for genotyped microsatellite markers.

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| --- | --- | --- | --- |
| **Products** | **Size (bp)** | **Primers** | **Thermal Profile** |
|
| **D15S128** | 196-220 | 5' CACGTGGGCTACAGGCTAAT 3' | 95˚C 10 min, (94˚C 15 sec, 52.2˚C 15 sec, 72˚C 30 sec) X 10 cycles |
|  |  | 3' AGCTATTTTGCNACTCNCTG 5' | (89˚C 15 sec, 52.2˚C 15 sec, 72˚C 30 sec) X 29 cycles, |
|  |  |  | 72˚C 10 min, hold 4˚C |
| **D15S113** | 130-146 | 5’ CATGTACTGTTTTATCCCTGTGGC 3’ | 95˚C 12 min, (94˚C 15 sec, 55˚C 15 sec, 72˚C 30 sec) X 11 cycles |
|  |  | 5’ CTGCTGCTTATACTCTTTCTCTATTC 3’ | (89˚C 15 sec, 52.2˚C 15 sec, 72˚C 30 sec) X 29 cycles, |
|  |  |  | 72˚C 30 min, hold 4˚C |
| **D15S1002** | 105-129 | 5’ GTATCCCAAGGCCATACCCT 3’ | 95˚C 12 min, (94˚C 15 sec, 55˚C 15 sec, 72˚C 30 sec) X 11 cycles |
|  |  | 5’ CTCTTGCTAGAGACAGCAGG 3’ | (89˚C 15 sec, 55˚C 15 sec, 72˚C 30 sec) X 21 cycles, |
|  |  |  | 72˚C 30 min, hold 4˚C |
| **D15S1019** | 202-218 | 5’ TTCTGGACCACGCATACTA 3’ | 95˚C 12 min, (94˚C 15 sec, 55˚C 15 sec, 72˚C 30 sec) X 11 cycles |
|  |  | 5’ ATCAGGCCATCTTTCATTGT 3’ | (89˚C 15 sec, 55˚C 15 sec, 72˚C 30 sec) X 21 cycles, |
|  |  |  | 72˚C 30 min, hold 4˚C |
| **D15S1043** | 92-104 | 5’ GAACGGAAATAGGAGTACCA 3’ | 95˚C 12 min, (94˚C 15 sec, 55˚C 15 sec, 72˚C 30 sec) X 11 cycles |
|  |  | 5’ ATTATCATCTGTAACCTGTGTCCTT 3’ | (89˚C 15 sec, 55˚C 15 sec, 72˚C 30 sec) X 21 cycles, |
|  |  |  | 72˚C 30 min, hold 4˚C |
| **D15S165** | 209-237 | 5’ TAAAGTTTACGCCTCATGGA 3’ | 95˚C 12 min, (94˚C 15 sec, 55˚C 15 sec, 72˚C 30 sec) X 11 cycles |
|  |  | 5’ CACAGTCCCAAACCATTTTA 3’ | (89˚C 15 sec, 55˚C 15 sec, 72˚C 30 sec) X 21 cycles, |
|  |  |  | 72˚C 30 min, hold 4˚C |
| **D15S1360** | 98-118 | 5' GATCTTTGGTAGAAGC 3' | 95˚C 10 min, (94˚C 15 sec, 55˚C 15 sec, 72˚C 30 sec) X 10 cycles |
|  |  | 3' ACCACCACTACCATACAGAC 5' | (89˚C 15 sec, 55˚C 15 sec, 72˚C 30 sec) X 29 cycles, |
|  |  |  | 72˚C 10 min, hold 4˚C |
| **D15S976** | 142-154 | 5’ CCATGAGCCACTATGCC 3’ | 95˚C 10 min, (94˚C 15 sec, 59˚C 15 sec, 72˚C 30 sec) X 10 cycles |
|  |  | 5’ GCCTATGACCCAGCAATTC 3’ | (89˚C 15 sec, 59˚C 15 sec, 72˚C 30 sec) X 29 cycles, |
|  |  |  | 72˚C 10 min, hold 4˚C |
| **D15S1031** | 299-321 | 5’ CAATCATGTGAGCCAATTCC 3’ | 95˚C 10 min, (94˚C 15 sec, 54˚C 15 sec, 72˚C 30 sec) X 10 cycles |
|  |  | 5’ ACCCTGCATCATCCTCGTT 3’ | (89˚C 15 sec, 54˚C 15 sec, 72˚C 30 sec) X 29 cycles, |
|  |  |  | 72˚C 10 min, hold 4˚C |
| **D15S659** | 194-214 | 5' GTGGATAGACACATGACAGATAGG 3' | 95˚C 10 min, (94˚C 30 sec, 55˚C 1 min, 72˚C 15 sec) X 30 cycles, |
|  |  | 3' TATTTGGCAAGGATAGATACAGG 5' | 72˚C 10 min, hold 4˚C |