

**Supplementary Table 1.** Loci information

|    | Name      | Repeat | Chr | Forward primer             | Reverse primer            |
|----|-----------|--------|-----|----------------------------|---------------------------|
| 1  | D16MIT189 | AC     | 16  | N/A                        | N/A                       |
| 2  | D9MIT201  | TG     | 9   | N/A                        | N/A                       |
| 3  | D12MIT182 | TG     | 12  | N/A                        | N/A                       |
| 4  | D4MIT203  | TG     | 4   | N/A                        | N/A                       |
| 5  | D17MIT180 | TG     | 17  | N/A                        | N/A                       |
| 6  | D1MIT316  | AC     | 1   | N/A                        | N/A                       |
| 7  | D1MIT206  | TG     | 1   | N/A                        | N/A                       |
| 8  | D9MIT250  | AC     | 9   | N/A                        | N/A                       |
| 9  | D4MIT17   | TG     | 4   | N/A                        | N/A                       |
| 10 | D5MIT425  | AC     | 5   | N/A                        | N/A                       |
| 11 | D18MIT222 | TC     | 18  | N/A                        | N/A                       |
| 12 | D4MIT18   | TG     | 4   | N/A                        | N/A                       |
| 13 | D7MIT259  | AC     | 7   | N/A                        | N/A                       |
| 14 | D10MIT213 | TG     | 10  | N/A                        | N/A                       |
| 15 | D9MIT198  | TG     | 9   | N/A                        | N/A                       |
| 16 | D10MIT95  | AC     | 10  | N/A                        | N/A                       |
| 17 | D14MIT170 | TG     | 14  | N/A                        | N/A                       |
| 18 | D19MIT88  | GA     | 19  | N/A                        | N/A                       |
| 19 | D15MIT44  | AC     | 15  | N/A                        | N/A                       |
| 20 | D5MIT146  | TG     | 5   | N/A                        | N/A                       |
| 21 | D8MIT45   | AC     | 8   | N/A                        | N/A                       |
| 22 | D15MIT159 | AC     | 15  | N/A                        | N/A                       |
| 23 | D19MIT33  | TC     | 19  | N/A                        | N/A                       |
| 24 | D6MIT36   | TG     | 6   | N/A                        | N/A                       |
| 25 | D10MIT233 | AC     | 10  | N/A                        | N/A                       |
| 26 | D1MIT132  | GA     | 1   | N/A                        | N/A                       |
| 27 | D19MIT26  | TG     | 19  | N/A                        | N/A                       |
| 28 | D6MIT284  | AC     | 6   | N/A                        | N/A                       |
| 29 | D8MIT292  | AC     | 8   | N/A                        | N/A                       |
| 30 | D8MIT120  | AC     | 8   | N/A                        | N/A                       |
| 31 | D2MIT285  | TG     | 2   | N/A                        | N/A                       |
| 32 | D11MIT285 | AC     | 11  | N/A                        | N/A                       |
| 33 | D11MIT143 | AC     | 11  | N/A                        | N/A                       |
| 34 | D1MIT102  | TG     | 1   | N/A                        | N/A                       |
| 35 | D11MIT86  | TG     | 11  | N/A                        | N/A                       |
| 36 | D2MIT242  | TG     | 2   | N/A                        | N/A                       |
| 37 | D14MIT126 | AC     | 14  | N/A                        | N/A                       |
| 38 | D14MIT174 | TG     | 14  | N/A                        | N/A                       |
| 39 | D2MIT208  | AC     | 2   | N/A                        | N/A                       |
| 40 | D5MIT98   | AC     | 5   | N/A                        | N/A                       |
| 41 | D18MIT194 | TG     | 18  | N/A                        | N/A                       |
| 42 | D13MIT19  | GA     | 13  | N/A                        | N/A                       |
| 43 | D17MIT122 | AC     | 17  | N/A                        | N/A                       |
| 44 | D12MIT91  | AC     | 12  | N/A                        | N/A                       |
| 45 | D5MIT10   | AC     | 5   | N/A                        | N/A                       |
| 46 | D3MIT203  | TG     | 3   | N/A                        | N/A                       |
| 47 | D4MIT209  | TG     | 4   | N/A                        | N/A                       |
| 48 | D15MIT161 | TG     | 15  | N/A                        | N/A                       |
| 49 | D1MIT64   | AC     | 1   | N/A                        | N/A                       |
| 50 | D14MIT60  | AC     | 14  | N/A                        | N/A                       |
| 51 | D12MIT59  | AC     | 12  | N/A                        | N/A                       |
| 52 | D1MIT440  | TG     | 1   | N/A                        | N/A                       |
| 53 | D9MIT336  | AC     | 9   | N/A                        | N/A                       |
| 54 | D13MIT16  | TG     | 13  | N/A                        | N/A                       |
| 55 | D2MIT1    | AC     | 2   | N/A                        | N/A                       |
| 56 | D4MIT348  | AC     | 4   | N/A                        | N/A                       |
| 57 | H610      | G      | 14  | ctacagtagtagcatgagaggtggtg | caaaagaatttccttttacattgg  |
| 58 | Barvaz    | GA     | 1   | tggctgcacaaacaagataggag    | cgaaacgtgctgtgtccatttg    |
| 59 | L2924     | AAAGGG | 12  | ggtgggtctctgtgggttgag      | tcatctccattagcacctgagcac  |
| 60 | L0382     | AG     | 5   | catcgtggaaactgacccttc      | tgtgaaggcaccaaaattgagtttc |

|     |           |          |    |                             |                             |
|-----|-----------|----------|----|-----------------------------|-----------------------------|
| 61  | D2MIT66   | AC       | 2  | gttgacagggcaatcaacc         | atctatcactgggctgtgc         |
| 62  | D2MIT411  | AC       | 2  | acactcacaactacgagataaagcc   | aggctattagggtgtcttcc        |
| 63  | D1MIT1001 | AC       | 1  | ttgtgtgtagtagcagttgtgtgg    | tggttcctgacatcaatctcc       |
| 64  | D2MIT100  | AC       | 2  | gtgttcctaaggtgtattttggc     | gaaatttgacaattgctagggtgc    |
| 65  | D1MIT426  | AC       | 1  | ctgccatccactacttggtg        | caaatgatacagtggaaccccc      |
| 66  | L2621     | AC       | 12 | atgaaaagatgcaaatccagcac     | aggctgccatacactcctccag      |
| 67  | L3464     | AAG      | 16 | ttcagctctcctccatctgtgc      | cgatgtgtgtgcatttggttcc      |
| 68  | L2454     | AGTC     | 17 | ttccccacatcgctgtaaatgg      | tggcctgagacaaaagcctagc      |
| 69  | M4        | AAG      | 6  | acggcgtgccttttcatttac       | ctgtccctgtgtctcatctg        |
| 70  | L2462     | AAAGC    | 3  | ccagagatacatagttagaccatgacg | ctgatggctctgtgtgcttttag     |
| 71  | L6231     | AGC      | 5  | actccccacagaggtcaccaag      | gctggctctcctgttagacattgg    |
| 72  | L1053     | AAAG     | 7  | aggcctatctttgccgcagac       | gcctggcattgtatctcagggttc    |
| 73  | L2492     | AAAGG    | 5  | accacatagaggcaggggtgag      | tcacagactgagttgaaggagaagg   |
| 74  | M16       | AAGC     | 10 | ttcaggtagatacatcagacctgtgg  | aagtcttgggggaacagtcgag      |
| 75  | M19       | TCTCT    | 10 | tgtgcaggggaagactggatctg     | tgatcatctcaagtgtttgtcacg    |
| 76  | H341      | G        | 12 | gcctaggacataaggatggttagattg | taggttgatatgtgagtgcaaagaag  |
| 77  | L1463     | CCTCTCTT | 16 | catcacccagctctttgaatc       | tcccagaatatgttgaaactcagtc   |
| 78  | M2        | AC       | 5  | aggccacacctgagcttttagc      | tctcccaatcacccgattcacc      |
| 79  | M7        | AAG      | 6  | tcagccttcagtaggcacagg       | ggacaactaccacaaaattccaagg   |
| 80  | M11       | TTTC     | 11 | aaactttatcaggaggaaagtgaagc  | ggccacatcactttgaagctg       |
| 81  | M6        | AGA      | 1  | ggacaaccaatgtttctgtgtg      | tgagcagcatctctggagaacag     |
| 82  | M8        | TCC      | X  | aagttgccagaggggaatgtc       | ttcatggaaataaacatgtctctgg   |
| 83  | M18       | AAGCA    | 3  | agaccaggcaccaccagtcag       | cgtaaagaacgcagataaagcttgc   |
| 84  | M15       | CTAT     | 18 | acttgaggaggacgggtgagag      | tttacttagtgctcagcttgaagg    |
| 85  | L2941     | AG       | 1  | gtagggcctgcaaaagcaggagtg    | gggtctgggctagggtgggaag      |
| 86  | D1MIT495  | TC...AC  | 1  | ccacctgtgctcaaaagaaa        | tctgagaggctgccacaata        |
| 87  | L7262     | AAC      | 2  | ctgagttggcaggcaaatgtg       | ttgcctctcaagcctttgtgtc      |
| 88  | L4163     | GCCTCCT  | 2  | tggctggactgagattccacag      | caaaccttttagcagagacttg      |
| 89  | M13       | CTTT     | 14 | gggcataaaattgttgcgttg       | gtgtgactgctcgttcccatc       |
| 90  | M17       | AGAA     | X  | tctcatggatgaacctataacaaagg  | aattgaaaagtgtgagcccatgc     |
| 91  | IDT5      | TC       | 13 | gagccaactctatgggctgagg      | catagcaaccccatcctctctg      |
| 92  | IDT7      | AG       | 13 | gcccctgaatctgaactgggtg      | ccccaaaagtagccaacagtg       |
| 93  | IDT8      | GA       | 6  | catacagtgccccctccctaag      | agctttcctgaggggcattctc      |
| 94  | IDT12     | AG       | 4  | gaatagcatcacccgactgcac      | agagggtccgtgtcatctgttg      |
| 95  | IDT13     | AC       | 2  | ggagggttttaaatagggaatgtgaag | tgcaaatgcccctctttgacc       |
| 96  | IDT14     | TC       | 14 | cgaactctttgctcctgtatttcc    | cagaatctggacaccacaacattacac |
| 97  | LX1       | A        | X  | ccgaggatcttctcgtttattg      | ttcatgctgtcccagaccagtg      |
| 98  | LX6       | G        | X  | tggcagccatagttcattcagg      | agtaggggaatggcagggttg       |
| 99  | LX7       | C        | X  | catgtgaaagtgggtgcaacttg     | cagtatttgggtgccccttcacg     |
| 100 | LX10      | GA       | X  | cccgactctctgctcttttcc       | cattcctcatccctccttcc        |
| 101 | LX11      | A        | X  | cctttctgcttgggttctgtg       | ggaaaaggaagtgcagggagag      |
| 102 | LX33      | GA       | X  | tgaactctggtcaatcatctcacag   | ccccaaagcatttacatataggg     |
| 103 | LX39      | GT       | X  | ttgtccaaagagttccacaagg      | accagtatggccaaaggagcag      |
| 104 | LX46      | A        | X  | ggaaggggaaacaacaaaatg       | cccactgtagaacagttgccttc     |
| 105 | LX12      | T        | X  | ttctagtccatccagcccttcc      | ggggcgtgtgtacctaattg        |
| 106 | LX35      | TC       | X  | atgagcaggaggaggagtgctg      | aagagcgagaaatgacgcaagg      |
| 107 | LX40      | AC       | X  | aggaccccatctctgtgttgg       | gccagccttgaggaatacaacg      |
| 108 | LX27      | A        | X  | caactcagttcccccatgacac      | tccaaaaaccaggcaattctcc      |
| 109 | LX42      | GT       | X  | tcatagaccccaactggctgtc      | tggagcagcctagtggaaattgtc    |
| 110 | LX43      | CA       | X  | tcctttgtggatgccagagtcaag    | tggatatgggcattgaattctcg     |
| 111 | LX18      | T        | X  | gaagagcctcagctgcaaggac      | cgccaatcaacccatttttag       |
| 112 | LX47      | GT       | X  | gagccaacaaggctcctgaaac      | ggggagcatttgcgaattacc       |
| 113 | LX17      | G        | X  | caccatcagcctttccaagac       | cctctctggcttcttcttctgg      |
| 114 | LX20      | T        | X  | ggcatcctcgctattccatgag      | caaatgctgtggaattcaccaatg    |
| 115 | LX25      | GA       | X  | tattgcctgtggaagggttgg       | ggcaatgccatttggctcttag      |
| 116 | LX28      | TC       | X  | tggattccgatattcaacaatacatcc | ctgagcactctgcgagcaaaac      |
| 117 | LX34      | CT       | X  | cagcaaaaacaggtggctgtg       | aatgcagggctcaggaaatgag      |
| 118 | LX32      | AG       | X  | atgttcaatgcattcccctctcc     | tgatggggactcagagtttctg      |
| 119 | LX31      | GA       | X  | tgatgccatccaaaatcatcatc     | gccaggtagggaagatggtcagtc    |
| 120 | LX24      | A        | X  | cggggacattccacgttagttc      | gcttatgggtgattccctgtgc      |
| 121 | P53       |          | 11 | Ttctactgccttgtgtgtgtc       | aagagggtgactttgggtggaag     |

N/A - Not available