

Supp. Table S1. DIP-STR primers

| Marker | DIP primers | STR primers | S- and L-DIP allele specific primers |
|---------------------|--|--|---|
| MID1013-D5S490 | NED-AGGATCTCATGCAGGATAC TGTTGTTTAGCTTCCTGGAC | VIC- GAATCTGAAGGTGTTCTAAAAGTAA *AAAGTGAGGAGTCAAGGAGG | S-6FAM-GGTCTGTCATTACCCA.GTATTC L-6FAM-GGTCTGTCATTACCCA.CTGG |
| MID1950-D20S473 | 6FAM- AAAGTGTGTCAGATCATTGAA ATCCTTCTGGAAAGATGCTT | *NED- TCATGAGCTAAATATTACTCAGTGC CTTATAGCTTTTTTCAAATGATCTG | S-AAAGATGCTTTATATTTCCAGTT.TAG L-AAAGATGCTTTATATTTCCAGTT.ATT |
| MID1107-D5S1980 | VIC-CTGAAGCTAAGAAATGCTAAAAA GGCACCTTAGTGATATGGG | *NED- CATGTTTGTACCTAGTAAAGACC ATGAAATGTACCTGCCTTG | S-TTACTACTAGGAGGCTCTCTT.CATC L-TTACTACTAGGAGGCTCTCTT.TGTT |
| rs11277790-D10S530 | VIC-GCTCAAAGATAAGGCCAGGA TGTGTGTTTTCCCAAGTCC | *6FAM-TCTAGCAGTAAGAGTTGTGTCTCC TTGACAAGGCCATCAAAAC | S-TGAATCCTTTGCTGTAATCTC.GGGA L-AATCCTTTGCTGTAATCTC.TCCAAC |
| rs60194384-D15S1514 | VIC-CAGCATGACATTAATCAAAAAGAA TTGTGACAATGAAATTCTTGGTTT | AATTGGAAATATACGTATAAACTCA *6FAM-GTCACTGCCACTGGGATATT | S-AGAGAGAATCAAAAAGTCAA.ATATAC L-AGAGAGAATCAAAAAGTCAA.TCTTAA |
| rs67842608-D5S468 | VIC-CAGATGTTAGCACTGGTTTGC TTTTCTGTGCTTGCCTCTCA | *6FAM-AAATGAATGGTAGATTTAACCTGAG TGGGAAAATAAATACATGCG | S-TCATGATCCTTAAAAAGT.TTTTGG L-TCATGATCCTTAAAAAGT.TGGTTTAA |
| rs66679498-D2S342 | VIC-CAATTGTTGAATGGTTTTGTTGA TTTTGAAGGATGCTGTGGTG | *VIC-CTGAGAGTCTGCACTGG CTCAACAAAACCATTCAACA | S-AAAGAAGACACTATTGT.GGGG L-AGACACTATTGT.GTAGGAGAA |
| rs10564579-D3S1282 | VIC-CCCAAGTCACTGTCCATCAA TTGTAGGGCTTGAAGAAAA | *VIC-GGCAGTACCACCTGTAGAAATG GAGTAACAGAGGCATCGTGTATTC | S-CTCCTACCTTGAAAAAGACTT.TATAATG L-CTCCTACCTTGAAAAAGACTT.TATGAC |
| rs35708668-D5S2045 | VIC-AACCTGTCTTGGGGCTTACA ACTTGTACCCCACTTGTC | CAGAGACAGTCATTTACAGAAGAG *VIC-CAGCCCCATACTTGCTTG | S-CATTACTAGGGTGAC.CCAG L-ACTAGGGTGAC.TACTATGTAC |

* Primer used for DIP-STR amplification with S- or L-DIP allele specific primer. In the last column dots indicate the insertion/deletion points.

Supp. Table S2. DIP-STR haplotype frequencies

| MID1013-D5S490 | | MID1950-D20S473 | | MID1107-D5S1980 | | rs11277790-D10S530 | | rs60194384-D15S1514 | | rs67842608-D5S468 | | rs66679498-D2S342 | | rs10564579-D3S1282 | | rs35708668-D5S2045 | |
|-----------------|-------|-----------------|-------|-----------------|-------|--------------------|-------|---------------------|-------|-------------------|-------|-------------------|-------|--------------------|-------|--------------------|-------|
| S11 | 0.005 | S8 | 0.005 | S9 | 0.005 | S191 | 0.010 | S112 | 0.010 | S88 | 0.005 | S232 | 0.005 | S144 | 0.020 | S200 | 0.010 |
| S12 | 0.005 | S10 | 0.005 | S16 | 0.005 | S193 | 0.524 | S120 | 0.020 | S90 | 0.010 | S234 | 0.505 | S146 | 0.094 | S202 | 0.029 |
| S13 | 0.034 | S11 | 0.267 | S17 | 0.005 | S195 | 0.097 | S124 | 0.206 | S92 | 0.097 | S236 | 0.015 | S148 | 0.020 | S204 | 0.397 |
| S14 | 0.694 | S12 | 0.286 | S18 | 0.005 | S197 | 0.010 | S128 | 0.235 | S94 | 0.102 | S238 | 0.069 | S150 | 0.040 | S206 | 0.054 |
| S15 | 0.034 | S13 | 0.053 | S19 | 0.203 | S199 | 0.102 | S132 | 0.098 | L86 | 0.039 | S240 | 0.054 | S152 | 0.163 | S208 | 0.010 |
| S16 | 0.005 | L8 | 0.073 | S20 | 0.054 | S201 | 0.029 | S136 | 0.039 | L88 | 0.005 | S247 | 0.005 | S154 | 0.376 | S211 | 0.010 |
| L15 | 0.015 | L9 | 0.005 | S21 | 0.030 | S203 | 0.024 | S140 | 0.005 | L90 | 0.073 | L228 | 0.020 | S158 | 0.015 | S213 | 0.093 |
| L20 | 0.053 | L11 | 0.019 | S22 | 0.005 | S205 | 0.010 | L120 | 0.025 | L92 | 0.034 | L229 | 0.137 | L146 | 0.114 | S214 | 0.005 |
| L21 | 0.029 | L12 | 0.184 | L13 | 0.465 | L179 | 0.010 | L124 | 0.078 | L94 | 0.553 | L230 | 0.167 | L148 | 0.005 | S215 | 0.083 |
| L22 | 0.015 | L13 | 0.102 | L14 | 0.050 | L181 | 0.005 | L128 | 0.147 | L96 | 0.039 | L245 | 0.020 | L150 | 0.119 | S217 | 0.074 |
| L23 | 0.073 | | | L15 | 0.054 | L183 | 0.015 | L132 | 0.093 | L98 | 0.034 | L247 | 0.005 | L154 | 0.025 | S218 | 0.010 |
| L24 | 0.019 | | | L17 | 0.109 | L191 | 0.010 | L136 | 0.044 | L100 | 0.005 | | | L156 | 0.010 | S219 | 0.108 |
| L25 | 0.005 | | | L19 | 0.010 | L197 | 0.063 | | | L102 | 0.005 | | | | | S221 | 0.025 |
| L26 | 0.010 | | | | | L199 | 0.078 | | | | | | | | | S223 | 0.025 |
| L27 | 0.005 | | | | | L203 | 0.015 | | | | | | | | | S225 | 0.010 |
| | | | | | | | | | | | | | | | | S227 | 0.005 |
| | | | | | | | | | | | | | | | | S229 | 0.010 |
| | | | | | | | | | | | | | | | | S231 | 0.005 |
| | | | | | | | | | | | | | | | | L198 | 0.039 |
| CEPH1347-02 DNA | | | | | | | | | | | | | | | | | |
| S13 | | S11 | | S20 | | S193 | | S124 | | S92 | | S234 | | S154 | | S213 | |
| S14 | | S11 | | L13 | | S205 | | S128 | | L94 | | S238 | | S156 | | S215 | |