**S5 Table. Primers for identification of haplogroups of mtDNA and the Y-chromosome**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name of haplogroup** | | **Sequence (5'→3')** | | **Size(bp)** | **Reference** |
| **Forward** | **Reverse** |
| **the site mutateda** | | | | |  |
| HVR1 | Outer (15971-16410) | TTAACTCCACCATTAGCACC | GAGGATGGTGGTCAAGGGAC | 440 | [66] |
| Nested (15977-16399) | CCACCATTAGCACCCAAAGC | TCAAGGGACCCCTATCTGA | 423 | [18] |
|  | 16097-16410b | TACATTACTGCCAGCCAC | GAGGATGGTGGTCAAGGGAC | 314 | This study |
| HVR2 | Outer(15-389) | CACCCTATTAACCACTCACG | CTGGTTAGGCTGGTGTTAGG | 375 | [66] |
| M or N (10398)  Z (10325) | Nested (29-381) | CTCACGGGAGCTCTCCAT | GCTGGTGTTAGGGTTCTTTG | 353 | [18] |
| 10130-10484**c** | ACCACAACTCAACGGCTACA | TAAATGAGGGGCATTTGG | 355 | [23] |
| M7 (9824) | 9744-9910 | AGATACTTCGAGTCTCC | AGCCAAGTGATGTTTGG | 167 | [23] |
| M9 (3393) | 3325-3476 | CCTACTCCTCATTGTACC | AGTTTTATGGCGTCAGCG | 152 | This study |
| CZ (4715)  G (4833) | 4646-4900**d** | TATTTCCTCACGCAAGC | GGTATATGATTGAGATGG | 255 | This study |
| D (5178) | 5047-5313 | TTCTACCGTACAACCCTAACATAAC | GTGAATTCTTCGATAATGGC | 267 | [23] |
| D4 (3010) | 2934-3079 | GGGATAACAGCGCAATCC | GTCTGAACTCAGATCACG | 146 | [23] |
| N9 (5417) | 5337-5495 | CCTCTACTTCTACCTACG | AAAGGGGAGATAGGTAGG | 159 | [23] |
| A (663) | 587-741 | AGCTTACCTCCTCAAAGC | GTGGTGATTTAGAGGGTG | 155 | [23] |
| R (12705) | 12671-12797 | TTGTTCGTTACATGGTCC | GCAAGAAGGATATAATTCC | 127 | [23] |
| B (8291-8299) | 8191-8389 | CAAACCACAGTTTCATGC | ACGGTAGTATTTAGTTGGG | 199 | [23] |
|  | | | | | |
| **Y chromosomee** | | | | | |
| M175 (O) | Outer | AAAATAGTACCCAAATCAACTCA | TTCTCTTGCAGCATTTTCAGTT | 231 | This study |
| Nested | GCACATGCCTTCTCACTTCT | TTCAGTTAGCCTTGATTGACTGT | 164 | [18] |
| RPS4Y711 (C) | Outer | CAGGGCAATAAACCTTGGAT | CCACAAGGGGGAAAAAACAC | 188 | [18] |
| Nested | GGGCAATAAACCTTGGATTT | CATTAAGAAACGAGAATTCACTG | 167 | [18] |
| M174 (D) | Outer | CACTGTGCGTTCTTCTCCGTCAC | TGACTAGAAGGTCCTGGAGATGC | 217 | [18] |
| Nested | CTCCGTCACAGCAAAAATGTAC | CCCATCTTGCAAGGAAAAGT | 162 | [18] |
| M231 (N) | Outer | GGAAAATGTGGGCTCGTTT | GAATGGTGGCCAGAGTCTTTCAC | 207 | [18] |
| Nested | GGCTCGTTTTAATTATATTCATAT | GGCCAGAGTCTTTCACATCAT | 190 | [18] |
| M207 (R) | Outer | ACTATGGGGCAAATGTAAGT | GCTGTTCGCTGCTACGAAT | 162 | [18] |
| Nested | GGCAAATGTAAGTCAAGCAAGAA | CGCTGCTACGAATCTTTAATCTTA | 149 | [18] |
| M242 (Q) | Outer | TCTACGGCATAGAAAGTTTGTG | GCTTTAAGGGCTTTCAGCAT | 168 | [18] |
| Nested | TGTGCAAAAAGGTGACCAA | GGCTTTCAGCATAATACCTTAC | 142 | [18] |
| M304 (J) | Outer | GGTATTGGGGTAGGCAAAGA | CCTTCAGGCTTCTAGCTTCATC | 207 | [18] |
| Nested | TGGGGTAGGCAAAGAAAAG | GGCTTCTAGCTTCATCTGCATTGT | 196 | [18] |
| M173 (R1) | Outer | CTTACAATTCAAGGGCATTTAG | AAAAGTCAACAGGGCTTTG | 230 | [18] |
| Nested | CAATTCAAGGGCATTTAGAA | CTTTACCTTCACAGCCTTCA | 165 | [18] |
| M343 (R1b) | Outer | AGGAGGCGGTGTCTGATT | ACCCCCACATATCTCCAGG | 153 | [18] |
| Nested | AAGGCTCAGGGTATTGGTT | CCCACATATCTCCAGGTG | 127 | [18] |
| M17 (R1a1a) | Outer | GGTCAAAAGAAGGCGTAGATAC | CAAAAATAGTTTGGCCACTTAAC | 174 | [18] |
| Nested | TTTGGCCTTGTCTTGAAGTG | ACTTAACAAACCCCAAAATTCAC | 134 | This study |