**Table S1.** Locations of populations of *D. punctatus* sampled, sample sizes (N), frequencies of ITS Ribotypes per population (*Nh*), and estimates of haplotype diversity (*h*) and nucleotide diversity (*π*) for ribotypes within populations.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Population | Abbr. | N | Nh | Ribotypes1  (ITS1 sequences nos.) | *h* (SD) | *π* in ‰ | *N* | *Nh* | Ribotypes2  (ITS2 sequences nos.) | | *h* (SD) | | *π* in ‰ |
| 1 | GXLC | 2 | 2 | R17(1) R26 (1) | 1(0.5) | 1.54 | 6 | 4 | N 15(4) N 20(2) | | 0.533(0.172) | | 1 |
| 2 | GXNN | 4 | 3 | R29 (1) R 30(1) R37 (2) | 0.833(0.222) | 6.68 | 12 | 4 | N 11(1) N 29(11) | | 0.167(0.134) | | 0.31 |
| 3 | GDDQ | 3 | 2 | R15 (1) R 26(2) | 0.667(0.314) | 1.02 | 4 | 5 | N6 (1) N 15(3) | | 0.5(0.265) | | 3.75 |
| 4 | YNWS | 9 | 4 | R8 (1) R26 (1) R31 (1) R35 (6) | 0.583(0.183) | 4.71 | 6 | 4 | N 15(1) N19 (1) N 29(4) | | 0.6(0.215) | | 1.26 |
| 5 | GXBS | 5 | 2 | R29 (1) R 37(4) | 0.4(0.237) | 3.08 | 7 | 3 | N11 (7) | | 0 | | 0 |
| 6 | GDXN | 6 | 4 | R 3(1) R 4(1) R 6(1) R26 (3) | 0.8(0.172) | 18.8 | 6 | 2 | N 1(2) N2 (1) N 15(3) | | 0.733(0.155) | | 2.12 |
| 7 | YNSL | 3 | 3 | R22 (1) R23 (1) R27 (1) | 1(0.272) | 3.07 | 3 | 2 | N3 (1) N 12(1) N20 (1) | | 1(0.272) | | 4.99 |
| 8 | FJSH | 2 | 2 | R 26(1) R38 (1) | 1(0.25) | 12.33 | 8 | 3 | N 19(1) N 29(7) | | 0.25（0.18） | | 0.47 |
| 9 | GZXY | 3 | 2 | R14 (1) R26 (2) | 0.667(0.314) | 1.02 | 4 | 3 | N 24(1) N15 (3) | | 0.5(0.265) | | 2.81 |
| 10 | FJWP | 6 | 2 | R11 (1) R26 (5) | 0.333(0.215) | 1.02 | 10 | 6 | N 5(1) N14 (1) N15 (5) N21 (1) N23 (2) | | 0.756(0.13) | | 3.04 |
| 11 | GXQZ | 12 | 5 | R25 (1) R26 (5) R29 (1) R36 (1) R38 (4) | 0.758(0.093) | 7.56 | 17 | 8 | N 15(6) N 17(1) N 19(2) N24 (1) N25 (1) N29 (5) | | 0.816(0.071) | | 2.47 |
| 12 | YNYR | 5 | 3 | R 26(3) R 36(1) R 38(1) | 0.7（0.218） | 6.78 | 11 | 4 | N 4(2) N15 (4) N16 (1) N20 (3) N28 (1) | | 0.818(0.083） | | 2.61 |
| 13 | GZGY | 4 | 4 | R10 (1) R 13(1) R25 (1) R26 (1) | 1（0.177） | 4.61 | 9 | 4 | N5 (1) N15 (7) N20 (1) | | 0.417(0.191) | | 1.66 |
| 14 | GZHZ | 4 | 3 | R 18(1) R19 (1) R26 (2) | 0.833（0.222） | 1.54 | 4 | 3 | N 5(1) N 15(3) | | 0.5(0.265) | | 2.81 |
| 15 | JXYC | 8 | 1 | R26 (8) | 0 | 0 | 10 | 5 | N5 (2) N15 (5) N20 (3) | | 0.689(0.104) | | 2.21 |
| 16 | JXGA | 2 | 2 | R5 (1) R26 (1) | 1（0.5） | 17 | 2 | 6 | N11 (1) N26 (1) | 1(0.5) | | 5.68 | | |
| 17 | ZJJS | 4 | 2 | R 11(1) R26 (3) | 0.5（0.265） | 1.54 | 8 | 4 | N13 (1) N1 4(1) N15 (4) N27 (1) N28(1) | 0.786(0.151) | | 3.03 | | |
| 18 | ZJQX | 6 | 3 | R 20(1) R21 (1) R26 (4) | 0.6（0.215） | 1.02 | 8 | 4 | N7 (1) N8 (1) N9 (1) N12 (1) N13 (1) N1 5(1) | 0.929（0.084） | | 2.88 | | |
| 19 | ZJLX | 4 | 1 | R26 (4) | 0 | 0 | 8 | 6 | N15 (6) N20 (1) N21 (1) | 0.464(0.2) | | 1.27 | | |
| 20 | SCLX | 3 | 2 | R5 (1) R36 (2) | 0.667(0.314) | 8.24 | 4 | 1 | N27(2) N28 (2) | 0.667(0.204) | | 1.26 | | |
| 21 | SCHY | 4 | 2 | R26 (1) R38 (3) | 0.5（0.265） | 6.16 | 4 | 5 | N10 (1) N29 (3) | 0.5(0.265) | | 1.89 | | |
| 22 | AHQS | 3 | 2 | R 16(1) R26 (2) | 0.667(0.314) | 1.02 | 3 | 3 | N15 (2) N26(1) | 0.667(0.314) | | 2.53 | | |
| 23 | HBCD | 20 | 11 | R1 (1) R2 (1) R7 (1) R9 (1) R12 (2) R 24(1) R 26(8) R 28(1) R32 (1) R33 (2) R 34(1) | 0.842(0.077) | 10.76 | 27 | 3 | N15 (5) N18(2) N20 (18) N29 (2) | 0.530（0.099） | | 1.52 | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S2**. Haplotype composition of 23 sampled populations of *Dendrolimus punctatus.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  | Haplotype composition | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Population | n | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |  |
| 1 | GXLC | 6 |  |  |  |  |  | 2 |  |  |  |  | 2 |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |
| 2 | GXNN | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 | 2 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | GDDQ | 8 |  |  |  |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  | 2 | 1 | 1 | 1 |  |  |  |  |
| 4 | YNWS | 6 | 1 | 3 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | GXBS | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | GDXN | 4 |  | 2 |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | YNSL | 6 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | FJSH | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | GZXY | 5 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 3 | 1 |  |  |  |  |  |  |  |  |  |
| 10 | FJWP | 11 |  |  |  |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  | 2 |  |  |  | 3 |  |  |  |  |  |  |  |
| 11 | GXQZ | 20 |  |  |  |  | 1 | 2 |  | 8 | 2 | 1 | 4 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | YNYR | 12 |  |  |  | 3 | 1 | 7 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | GZGY | 8 |  |  |  |  | 1 | 3 |  |  |  |  |  |  |  |  |  |  |  | 1 | 3 |  |  |  |  |  |  |  |  |  |  |
| 14 | GZHZ | 7 |  |  |  |  |  | 3 |  |  |  |  | 3 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |
| 15 | JXYC | 12 |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 | 4 |  |  |  |  |  |  |
| 16 | JXGA | 11 |  | 4 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | ZJJS | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 | 2 |  |
| 18 | ZJQX | 11 | 1 | 6 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |
| 19 | ZJLX | 9 |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |
| 20 | SCLX | 4 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | SCHY | 8 |  |  |  |  |  | 3 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 1 |  |  |  |  |  |  |
| 22 | AHQS | 12 |  | 10 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | HBCD | 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Haplotype composition | | | | | | | | | | | | | | | | | | | | | | |
|  | Population | n | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 |
| 1 | GXLC | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | GXNN | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | GDDQ | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | YNWS | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | GXBS | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 5 | 4 |  |  |  |
| 6 | GDXN | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | YNSL | 6 |  |  |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |
| 8 | FJSH | 9 |  |  |  |  |  |  |  |  |  | 5 | 1 | 3 |  |  |  |  |  |  |  |  |  |  |  |
| 9 | GZXY | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | FJWP | 11 |  |  |  |  |  |  | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | GXQZ | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | YNYR | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | GZGY | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | GZHZ | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | JXYC | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| 16 | JXGA | 11 |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 | 1 | 1 |  |  |  |  |  |  |  |
| 17 | ZJJS | 10 | 4 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | ZJQX | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | ZJLX | 9 |  |  | 3 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | SCLX | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | SCHY | 8 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | AHQS | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |
| 23 | HBCD | 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 15 | 8 | 12 |

**Table S3.** ITS1 Ribotypes composition of 23 sampled populations of *Dendrolimus punctatus..*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | ITS1 Ribotypes compositions | | | | | | | | | | | |
| Population | Total | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| GXLC | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| GXNN | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| GDDQ | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| YNWS | 9 |  |  |  |  |  |  |  | 1 |  |  |  |  |
| GXBS | 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| GDXN | 6 |  |  | 1 | 1 |  | 1 |  |  |  |  |  |  |
| YNSL | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| FJSH | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| GZXY | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| FJWP | 6 |  |  |  |  |  |  |  |  |  |  | 1 |  |
| GXQZ | 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| YNYR | 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| GZGY | 4 |  |  |  |  |  |  |  |  |  | 1 |  |  |
| GZHZ | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| JXYC | 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| JXGA | 2 |  |  |  |  | 1 |  |  |  |  |  |  |  |
| ZJJS | 4 |  |  |  |  |  |  |  |  |  |  | 1 |  |
| ZJQX | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| ZJLX | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| SCLX | 3 |  |  |  |  | 1 |  |  |  |  |  |  |  |
| SCHY | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| AHQS | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| HBCD | 20 | 1 | 1 |  |  |  |  | 1 |  | 1 |  |  | 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | ITS1 Ribotypes compositions | | | | | | | | | | | |
| Population | Total | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| GXLC | 2 |  |  |  |  | 1 |  |  |  |  |  |  |  |
| GXNN | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| GDDQ | 3 |  |  | 1 |  |  |  |  |  |  |  |  |  |
| YNWS | 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| GXBS | 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| GDXN | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| YNSL | 3 |  | 1 |  |  |  |  |  |  |  | 1 | 1 |  |
| FJSH | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| GZXY | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| FJWP | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| GXQZ | 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| YNYR | 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| GZGY | 4 | 1 |  |  |  |  |  |  |  |  |  |  |  |
| GZHZ | 4 |  |  |  |  |  | 1 | 1 |  |  |  |  |  |
| JXYC | 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| JXGA | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| ZJJS | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| ZJQX | 6 |  |  |  |  |  |  |  | 1 | 1 |  |  |  |
| ZJLX | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| SCLX | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| SCHY | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| AHQS | 3 |  |  |  | 1 |  |  |  |  |  |  |  |  |
| HBCD | 20 |  |  |  |  |  |  |  |  |  |  |  | 1 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | ITS1 Ribotypes compositions | | | | | | | | | | | |  |  |
| Population | Total | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
| GXLC | 2 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| GXNN | 4 |  |  |  |  | 1 | 1 |  |  |  |  |  |  | 2 |  |
| GDDQ | 3 |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| YNWS | 9 |  | 1 |  |  |  |  | 1 |  |  |  | 6 |  |  |  |
| GXBS | 5 |  |  |  |  | 1 |  |  |  |  |  |  |  | 4 |  |
| GDXN | 6 |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| YNSL | 3 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |
| FJSH | 2 |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |
| GZXY | 3 |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| FJWP | 6 |  | 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| GXQZ | 12 | 1 | 5 |  |  | 1 |  |  |  |  |  |  | 1 |  | 4 |
| YNYR | 5 |  | 3 |  |  |  |  |  |  |  |  |  | 1 |  | 1 |
| GZGY | 4 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| GZHZ | 4 |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| JXYC | 8 |  | 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| JXGA | 2 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| ZJJS | 4 |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| ZJQX | 6 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| ZJLX | 4 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| SCLX | 3 |  |  |  |  |  |  |  |  |  |  |  | 2 |  |  |
| SCHY | 4 |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 3 |
| AHQS | 3 |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| HBCD | 20 |  | 8 |  | 1 |  |  |  | 1 | 2 | 1 |  |  |  |  |

**Table S4.** ITS2 Ribotypes composition of 23 sampled populations of *Dendrolimus punctatus..*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | ITS2 Ribotypes compositions | | | | | | | | | | | |  |  |  |
| Population | Total | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| GXLC | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 |
| GXNN | 12 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |
| GDDQ | 4 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  | 3 |
| YNWS | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| GXBS | 7 |  |  |  |  |  |  |  |  |  |  | 7 |  |  |  |  |
| GDXN | 6 | 2 | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| YNSL | 3 |  |  | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |
| FJSH | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GZXY | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| FJWP | 10 |  |  |  |  | 1 |  |  |  |  |  |  |  |  | 1 | 5 |
| GXQZ | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 |
| YNYR | 11 |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  | 4 |
| GZGY | 9 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 7 |
| GZHZ | 4 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 3 |
| JXYC | 10 |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  | 5 |
| JXGA | 2 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |
| ZJJS | 8 |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 4 |
| ZJQX | 7 |  |  |  |  |  |  | 1 | 1 | 1 |  |  | 1 | 2 |  | 1 |
| ZJLX | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 |
| SCLX | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SCHY | 4 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |
| AHQS | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| HBCD | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | ITS2 Ribotypes compositions | | | | | | | | | | | |  |  |
| Population | Total | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| GXLC | 6 |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |
| GXNN | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  | 11 |
| GDDQ | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| YNWS | 6 |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 4 |
| GXBS | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GDXN | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| YNSL | 3 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |
| FJSH | 8 |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 7 |
| GZXY | 4 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |
| FJWP | 10 |  |  |  |  |  | 1 |  | 2 |  |  |  |  |  |  |
| GXQZ | 16 |  | 1 |  | 2 |  |  |  |  | 1 | 1 |  |  |  | 5 |
| YNYR | 11 | 1 |  |  |  | 3 | 1 |  |  |  |  |  |  | 1 |  |
| GZGY | 9 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |
| GZHZ | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| JXYC | 10 |  |  |  |  | 3 |  |  |  |  |  |  |  |  |  |
| JXGA | 2 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |
| ZJJS | 8 |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |
| ZJQX | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZJLX | 8 |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |
| SCLX | 4 |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 |  |
| SCHY | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| AHQS | 3 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |
| HBCD | 27 |  |  | 2 |  | 18 |  |  |  |  |  |  |  |  | 2 |