**Table S1 - Cumulative probability of genotype identity for 17 cacao clones fingerprinted at 86 SNP loci**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SNP** | **PA7** | **PA 150** | **T60/887** | **PA 121** | **CRG 03** | **MAN15-2** | **MO20** | **IFC 5** | **CRG 3019** |
| **TcSNP1075** | 1.0E+00 | 1.0E+00 | 1.0E+00 | 1.0E+00 | 1.0E+00 | 6.3E-01 | 6.3E-01 | 6.3E-01 | 6.3E-01 |
| **TcSNP534** | 4.9E-01 | 4.2E-01 | 4.2E-01 | 4.2E-01 | 4.9E-01 | 2.4E-01 | 2.9E-01 | 2.9E-01 | 2.9E-01 |
| **TcSNP591** | 2.4E-01 | 1.8E-01 | 1.8E-01 | 2.1E-01 | 2.1E-01 | 1.2E-01 | 6.2E-02 | 1.5E-01 | 1.5E-01 |
| **TcSNP42** | 2.4E-01 | 1.8E-01 | 1.8E-01 | 2.1E-01 | 2.1E-01 | 9.3E-02 | 4.7E-02 | 1.1E-01 | 1.1E-01 |
| **TcSNP418** | 3.8E-02 | 6.4E-02 | 8.5E-02 | 9.9E-02 | 7.4E-02 | 3.6E-02 | 6.6E-03 | 4.4E-02 | 5.2E-02 |
| **Tcm003s133** | 1.9E-02 | 1.6E-02 | 2.1E-02 | 4.9E-02 | 3.7E-02 | 1.7E-02 | 3.1E-03 | 1.7E-02 | 2.5E-02 |
| **Tcm003s581** | 8.1E-03 | 7.8E-03 | 8.9E-03 | 2.4E-02 | 1.6E-02 | 7.6E-03 | 1.4E-03 | 7.6E-03 | 1.1E-02 |
| **Tcm003s643** | 3.9E-03 | 1.2E-03 | 3.2E-03 | 8.7E-03 | 7.5E-03 | 2.5E-03 | 8.7E-04 | 4.7E-03 | 3.6E-03 |
| **Tcm003s712** | 1.9E-03 | 3.1E-04 | 1.6E-03 | 8.7E-03 | 1.9E-03 | 1.2E-03 | 4.1E-04 | 2.2E-03 | 1.4E-03 |
| **Tcm003s719** | 3.5E-04 | 2.5E-04 | 1.3E-03 | 7.1E-03 | 1.5E-03 | 5.2E-04 | 4.5E-05 | 9.9E-04 | 6.2E-04 |
| **Tcm003s745** | 1.7E-04 | 1.2E-04 | 4.7E-04 | 2.5E-03 | 2.4E-04 | 2.6E-04 | 1.1E-05 | 2.5E-04 | 1.6E-04 |
| **TcSNP1034** | 1.7E-04 | 1.2E-04 | 4.7E-04 | 2.5E-03 | 2.4E-04 | 2.2E-04 | 9.5E-06 | 2.1E-04 | 1.3E-04 |
| **TcSNP1038** | 1.7E-04 | 1.2E-04 | 4.7E-04 | 2.5E-03 | 2.4E-04 | 1.1E-04 | 3.9E-06 | 8.6E-05 | 6.6E-05 |
| **TcSNP1041** | 3.0E-05 | 9.8E-05 | 3.8E-04 | 2.1E-03 | 2.0E-04 | 8.8E-06 | 3.6E-06 | 7.9E-05 | 6.0E-05 |
| **TcSNP1060** | 1.9E-05 | 6.3E-05 | 1.2E-04 | 1.3E-03 | 6.3E-05 | 3.3E-06 | 1.4E-06 | 3.0E-05 | 3.4E-05 |
| **TcSNP1062** | 1.9E-05 | 6.3E-05 | 1.2E-04 | 1.3E-03 | 6.3E-05 | 1.5E-06 | 6.3E-07 | 4.2E-06 | 1.3E-05 |
| **TcSNP1063** | 1.9E-05 | 6.3E-05 | 1.2E-04 | 1.3E-03 | 6.3E-05 | 1.2E-06 | 1.4E-07 | 3.2E-06 | 1.0E-05 |
| **TcSNP1096** | 1.9E-05 | 6.3E-05 | 1.2E-04 | 1.3E-03 | 6.3E-05 | 8.2E-07 | 3.8E-08 | 2.2E-06 | 7.1E-06 |
| **TcSNP1111** | 1.9E-05 | 6.3E-05 | 1.2E-04 | 1.3E-03 | 6.3E-05 | 1.9E-07 | 9.1E-09 | 1.6E-06 | 7.1E-06 |
| **TcSNP1126** | 1.9E-05 | 6.3E-05 | 1.2E-04 | 1.3E-03 | 6.3E-05 | 1.5E-07 | 2.0E-09 | 1.3E-06 | 5.4E-06 |
| **TcSNP1144** | 1.9E-05 | 6.3E-05 | 1.2E-04 | 1.3E-03 | 6.3E-05 | 2.6E-08 | 9.6E-10 | 2.2E-07 | 1.8E-06 |
| **TcSNP1156** | 8.1E-06 | 3.1E-05 | 5.1E-05 | 5.5E-04 | 3.1E-05 | 1.1E-08 | 4.3E-10 | 9.7E-08 | 8.2E-07 |
| **TcSNP1165** | 8.1E-06 | 3.1E-05 | 5.1E-05 | 5.5E-04 | 3.1E-05 | 6.8E-09 | 1.5E-10 | 3.4E-08 | 8.2E-07 |
| **TcSNP1175** | 4.0E-06 | 7.7E-06 | 2.5E-05 | 2.8E-04 | 7.7E-06 | 2.3E-09 | 7.3E-11 | 1.2E-08 | 4.0E-07 |
| **TcSNP122** | 4.0E-06 | 7.7E-06 | 2.5E-05 | 2.8E-04 | 7.7E-06 | 8.7E-10 | 2.7E-11 | 4.4E-09 | 2.2E-07 |
| **TcSNP1242** | 4.0E-06 | 7.7E-06 | 2.5E-05 | 2.8E-04 | 7.7E-06 | 1.9E-10 | 6.0E-12 | 3.3E-09 | 1.7E-07 |
| **TcSNP1253** | 4.0E-06 | 7.7E-06 | 2.5E-05 | 2.8E-04 | 7.7E-06 | 1.9E-10 | 9.9E-13 | 2.8E-09 | 1.4E-07 |
| **TcSNP1392** | 4.0E-06 | 7.7E-06 | 2.5E-05 | 2.8E-04 | 7.7E-06 | 4.2E-11 | 2.2E-13 | 2.1E-09 | 1.1E-07 |
| **TcSNP1414** | 4.0E-06 | 7.7E-06 | 2.5E-05 | 2.8E-04 | 7.7E-06 | 1.4E-11 | 7.2E-14 | 1.3E-09 | 6.8E-08 |
| **TcSNP144** | 2.6E-06 | 2.5E-06 | 1.6E-05 | 8.9E-05 | 4.9E-06 | 4.0E-12 | 3.6E-14 | 6.6E-10 | 3.4E-08 |
| **TcSNP1442** | 1.2E-06 | 3.9E-07 | 5.9E-06 | 4.2E-05 | 1.8E-06 | 7.0E-13 | 1.2E-14 | 1.1E-10 | 1.1E-08 |
| **TcSNP1458** | 6.2E-07 | 9.8E-08 | 1.5E-06 | 1.1E-05 | 4.4E-07 | 3.4E-13 | 2.1E-15 | 3.9E-11 | 5.6E-09 |
| **TcSNP1484** | 3.1E-07 | 4.9E-08 | 7.3E-07 | 2.7E-06 | 1.1E-07 | 1.7E-13 | 1.1E-15 | 2.0E-11 | 2.3E-09 |
| **TcSNP150** | 2.5E-07 | 4.0E-08 | 5.9E-07 | 4.8E-07 | 9.0E-08 | 7.0E-14 | 4.4E-16 | 8.1E-12 | 1.2E-09 |
| **TcSNP172** | 2.5E-07 | 4.0E-08 | 5.9E-07 | 4.8E-07 | 9.0E-08 | 4.9E-14 | 1.2E-16 | 5.6E-12 | 8.0E-10 |
| **TcSNP174** | 2.5E-07 | 4.0E-08 | 5.9E-07 | 4.8E-07 | 9.0E-08 | 4.5E-14 | 1.1E-16 | 5.1E-12 | 7.4E-10 |
| **TcSNP193** | 2.5E-07 | 4.0E-08 | 5.9E-07 | 4.8E-07 | 9.0E-08 | 2.3E-14 | 4.6E-17 | 2.1E-12 | 3.7E-10 |
| **TcSNP226** | 2.5E-07 | 4.0E-08 | 5.9E-07 | 4.8E-07 | 9.0E-08 | 3.7E-15 | 3.8E-17 | 1.8E-12 | 3.1E-10 |
| **TcSNP23** | 2.5E-07 | 4.0E-08 | 5.9E-07 | 4.8E-07 | 9.0E-08 | 3.1E-15 | 5.8E-18 | 1.5E-12 | 2.6E-10 |
| **TcSNP230** | 1.2E-07 | 6.4E-09 | 2.8E-07 | 1.7E-07 | 3.2E-08 | 1.4E-15 | 2.6E-18 | 6.6E-13 | 2.9E-11 |
| **TcSNP242** | 5.9E-08 | 3.1E-09 | 1.2E-07 | 8.4E-08 | 2.9E-09 | 1.2E-16 | 1.1E-18 | 3.3E-13 | 1.4E-11 |
| **TcSNP25** | 5.9E-08 | 3.1E-09 | 1.2E-07 | 8.4E-08 | 2.9E-09 | 9.9E-17 | 1.6E-19 | 2.8E-13 | 1.2E-11 |
| **TcSNP288** | 3.8E-08 | 2.0E-09 | 3.8E-08 | 5.4E-08 | 9.3E-10 | 1.4E-17 | 6.3E-20 | 1.1E-13 | 5.6E-12 |
| **TcSNP316** | 3.8E-08 | 2.0E-09 | 3.8E-08 | 5.4E-08 | 9.3E-10 | 3.9E-18 | 4.4E-20 | 7.5E-14 | 3.9E-12 |
| **TcSNP32** | 1.9E-08 | 5.0E-10 | 1.9E-08 | 2.7E-08 | 2.3E-10 | 1.9E-18 | 2.2E-20 | 2.2E-14 | 1.9E-12 |
| **TcSNP329** | 1.9E-08 | 5.0E-10 | 1.9E-08 | 2.7E-08 | 2.3E-10 | 4.2E-19 | 4.8E-21 | 4.8E-15 | 1.5E-12 |
| **TcSNP364** | 1.9E-08 | 5.0E-10 | 1.9E-08 | 2.7E-08 | 2.3E-10 | 3.5E-19 | 7.9E-22 | 4.8E-15 | 1.2E-12 |
| **TcSNP372** | 1.5E-08 | 4.0E-10 | 3.4E-09 | 2.2E-08 | 1.9E-10 | 2.7E-19 | 6.1E-22 | 3.7E-15 | 9.4E-13 |
| **TcSNP375** | 1.5E-08 | 4.0E-10 | 3.4E-09 | 2.2E-08 | 1.9E-10 | 1.7E-19 | 2.0E-22 | 2.3E-15 | 5.9E-13 |
| **TcSNP395** | 1.5E-08 | 4.0E-10 | 3.4E-09 | 2.2E-08 | 1.9E-10 | 1.5E-19 | 1.8E-22 | 1.8E-16 | 5.4E-13 |
| **TcSNP413** | 7.4E-09 | 1.5E-10 | 1.7E-09 | 1.0E-08 | 9.0E-11 | 7.6E-20 | 3.9E-23 | 9.2E-17 | 1.1E-13 |
| **TcSNP430** | 6.0E-09 | 1.2E-10 | 1.3E-09 | 1.9E-09 | 7.3E-11 | 3.0E-20 | 1.8E-23 | 1.3E-17 | 4.5E-14 |
| **TcSNP448** | 6.0E-09 | 1.2E-10 | 1.3E-09 | 1.9E-09 | 7.3E-11 | 1.2E-20 | 7.5E-24 | 5.3E-18 | 2.2E-14 |
| **TcSNP469** | 3.8E-09 | 3.8E-11 | 8.6E-10 | 6.0E-10 | 4.7E-11 | 5.5E-21 | 3.3E-24 | 2.4E-18 | 9.9E-15 |
| **TcSNP497** | 1.9E-09 | 1.9E-11 | 3.6E-10 | 3.0E-10 | 4.2E-12 | 1.9E-21 | 1.6E-24 | 8.0E-19 | 4.8E-15 |
| **TcSNP521** | 9.2E-10 | 9.1E-12 | 1.5E-10 | 1.5E-10 | 3.8E-13 | 9.2E-22 | 8.0E-25 | 2.4E-19 | 2.4E-15 |
| **TcSNP529** | 3.3E-10 | 4.4E-12 | 7.2E-11 | 5.2E-11 | 6.1E-14 | 4.6E-22 | 4.0E-25 | 6.9E-20 | 1.2E-15 |
| **TcSNP547** | 2.1E-10 | 2.8E-12 | 4.6E-11 | 3.3E-11 | 2.4E-15 | 1.1E-22 | 2.0E-25 | 1.7E-20 | 3.0E-16 |
| **TcSNP560** | 1.1E-10 | 7.0E-13 | 2.3E-11 | 8.4E-12 | 1.2E-15 | 5.4E-23 | 9.3E-26 | 2.4E-21 | 1.4E-16 |
| **TcSNP60** | 1.1E-10 | 7.0E-13 | 2.3E-11 | 8.4E-12 | 1.2E-15 | 4.9E-23 | 8.5E-26 | 2.2E-21 | 1.3E-16 |
| **TcSNP602** | 5.2E-11 | 2.9E-13 | 1.1E-11 | 7.5E-13 | 5.9E-16 | 2.3E-23 | 4.0E-26 | 1.0E-21 | 6.0E-17 |
| **TcSNP606** | 4.2E-11 | 2.4E-13 | 9.2E-12 | 6.1E-13 | 1.1E-16 | 1.9E-23 | 2.8E-28 | 8.7E-22 | 5.0E-17 |
| **TcSNP619** | 2.7E-11 | 1.5E-13 | 5.9E-12 | 3.9E-13 | 4.3E-18 | 8.4E-25 | 1.7E-28 | 5.5E-22 | 1.7E-17 |
| **TcSNP645** | 1.1E-11 | 7.4E-14 | 2.5E-12 | 1.6E-13 | 2.1E-18 | 3.3E-25 | 6.8E-29 | 7.7E-23 | 6.4E-18 |
| **TcSNP709** | 1.1E-11 | 7.4E-14 | 2.5E-12 | 1.6E-13 | 2.1E-18 | 1.5E-25 | 3.2E-29 | 3.0E-23 | 2.5E-18 |
| **TcSNP723** | 1.1E-11 | 7.4E-14 | 2.5E-12 | 1.6E-13 | 2.1E-18 | 1.4E-25 | 2.9E-29 | 2.4E-24 | 2.3E-18 |
| **TcSNP731** | 4.7E-12 | 3.1E-14 | 1.2E-12 | 6.9E-14 | 1.0E-18 | 6.6E-26 | 1.4E-29 | 9.4E-25 | 9.0E-19 |
| **TcSNP75** | 4.7E-12 | 3.1E-14 | 1.2E-12 | 6.9E-14 | 1.0E-18 | 4.9E-26 | 1.4E-29 | 2.2E-25 | 6.7E-19 |
| **TcSNP751** | 8.5E-13 | 2.5E-14 | 9.8E-13 | 5.6E-14 | 8.3E-19 | 1.4E-26 | 9.5E-30 | 6.1E-26 | 4.7E-19 |
| **TcSNP761** | 8.5E-13 | 2.5E-14 | 9.8E-13 | 5.6E-14 | 8.3E-19 | 1.0E-26 | 2.1E-30 | 4.7E-26 | 3.6E-19 |
| **TcSNP776** | 8.5E-13 | 2.5E-14 | 9.8E-13 | 5.6E-14 | 8.3E-19 | 4.9E-27 | 8.1E-31 | 6.6E-27 | 1.4E-19 |
| **TcSNP799** | 8.5E-13 | 2.5E-14 | 9.8E-13 | 5.6E-14 | 8.3E-19 | 4.5E-27 | 7.4E-31 | 6.1E-27 | 1.3E-19 |
| **TcSNP823** | 6.9E-13 | 2.0E-14 | 1.8E-13 | 4.5E-14 | 6.7E-19 | 2.2E-27 | 2.5E-31 | 1.1E-27 | 6.2E-20 |
| **TcSNP836** | 3.4E-13 | 1.8E-15 | 8.7E-14 | 1.9E-14 | 3.3E-19 | 1.4E-27 | 8.4E-32 | 6.6E-28 | 3.9E-20 |
| **TcSNP872** | 1.7E-13 | 9.0E-16 | 3.6E-14 | 9.3E-15 | 3.0E-20 | 5.4E-28 | 3.9E-32 | 2.6E-28 | 1.5E-20 |
| **TcSNP878** | 1.7E-13 | 9.0E-16 | 3.6E-14 | 9.3E-15 | 3.0E-20 | 3.4E-28 | 1.3E-32 | 1.6E-28 | 9.6E-21 |
| **TcSNP894** | 1.7E-13 | 9.0E-16 | 3.6E-14 | 9.3E-15 | 3.0E-20 | 3.1E-28 | 1.2E-32 | 1.5E-28 | 8.8E-21 |
| **TcSNP899** | 1.7E-13 | 9.0E-16 | 3.6E-14 | 9.3E-15 | 3.0E-20 | 1.2E-28 | 4.4E-33 | 5.6E-29 | 5.0E-21 |
| **TcSNP90** | 1.7E-13 | 9.0E-16 | 3.6E-14 | 9.3E-15 | 3.0E-20 | 8.9E-29 | 3.4E-33 | 1.2E-29 | 3.8E-21 |
| **TcSNP917** | 6.0E-14 | 4.3E-16 | 1.3E-14 | 1.5E-15 | 1.4E-20 | 4.4E-29 | 1.7E-33 | 3.0E-30 | 9.5E-22 |
| **TcSNP929** | 2.1E-14 | 1.6E-16 | 6.3E-15 | 7.1E-16 | 2.3E-21 | 2.8E-29 | 5.6E-34 | 1.9E-30 | 3.1E-22 |
| **TcSNP944** | 2.1E-14 | 1.6E-16 | 6.3E-15 | 7.1E-16 | 2.3E-21 | 2.3E-29 | 8.6E-35 | 1.6E-30 | 2.6E-22 |
| **TcSNP953** | 2.1E-14 | 1.6E-16 | 6.3E-15 | 7.1E-16 | 2.3E-21 | 1.6E-29 | 2.4E-35 | 1.1E-30 | 1.8E-22 |
| **TcSNP994** | 1.1E-14 | 7.6E-17 | 3.1E-15 | 6.4E-17 | 9.6E-22 | 7.6E-30 | 1.1E-35 | 4.4E-31 | 2.6E-23 |
| **TcSNP998** | 5.1E-15 | 3.7E-17 | 1.5E-15 | 3.1E-17 | 3.5E-22 | 2.6E-30 | 3.8E-36 | 7.6E-32 | 4.5E-24 |
| **TcSNP999** | 5.1E-15 | 3.7E-17 | 1.5E-15 | 3.1E-17 | 3.5E-22 | 1.3E-30 | 1.9E-36 | 6.4E-33 | 2.2E-24 |

**Table S1 (contd) - Cumulative probability of genotype identity for 17 cacao clones fingerprinted at 86 SNP loci**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SNP** | CRG 1018 | CRG 1019 | CRG 2024 | CRG 6035 | EET 59H | CRG 9006 | CRG 9001 | CRG 8220 |
| **TcSNP1075** | 6.3E-01 | 6.3E-01 | 6.3E-01 | 3.3E-01 | 3.3E-01 | 3.3E-01 | 3.3E-01 | 3.3E-01 |
| **TcSNP534** | 8.8E-02 | 8.8E-02 | 2.4E-01 | 1.3E-01 | 1.5E-01 | 1.3E-01 | 1.5E-01 | 1.3E-01 |
| **TcSNP591** | 4.4E-02 | 2.6E-02 | 7.2E-02 | 6.4E-02 | 7.7E-02 | 6.4E-02 | 7.7E-02 | 6.4E-02 |
| **TcSNP42** | 3.4E-02 | 2.0E-02 | 5.5E-02 | 1.4E-02 | 1.7E-02 | 4.9E-02 | 5.9E-02 | 1.4E-02 |
| **TcSNP418** | 1.6E-02 | 7.7E-03 | 2.1E-02 | 5.5E-03 | 2.4E-03 | 2.3E-02 | 2.8E-02 | 6.6E-03 |
| **Tcm003s133** | 7.4E-03 | 3.6E-03 | 1.0E-02 | 2.6E-03 | 9.2E-04 | 1.1E-02 | 1.1E-02 | 3.1E-03 |
| **Tcm003s581** | 3.3E-03 | 1.6E-03 | 4.5E-03 | 1.1E-03 | 4.1E-04 | 4.8E-03 | 4.8E-03 | 1.4E-03 |
| **Tcm003s643** | 1.1E-03 | 1.0E-03 | 1.5E-03 | 7.1E-04 | 1.4E-04 | 3.0E-03 | 3.0E-03 | 8.6E-04 |
| **Tcm003s712** | 5.1E-04 | 3.9E-04 | 6.9E-04 | 2.8E-04 | 6.3E-05 | 4.2E-04 | 1.4E-03 | 3.3E-04 |
| **Tcm003s719** | 2.2E-04 | 1.8E-04 | 3.1E-04 | 1.2E-04 | 2.8E-05 | 1.9E-04 | 6.2E-04 | 1.5E-04 |
| **Tcm003s745** | 1.1E-04 | 4.4E-05 | 7.7E-05 | 6.2E-05 | 1.4E-05 | 9.4E-05 | 3.1E-04 | 3.7E-05 |
| **TcSNP1034** | 1.7E-05 | 3.7E-05 | 6.5E-05 | 5.2E-05 | 1.2E-05 | 1.4E-05 | 2.6E-04 | 3.1E-05 |
| **TcSNP1038** | 8.6E-06 | 1.8E-05 | 3.2E-05 | 2.2E-05 | 1.0E-06 | 5.9E-06 | 1.3E-04 | 1.3E-05 |
| **TcSNP1041** | 7.9E-06 | 1.7E-05 | 3.0E-05 | 2.0E-05 | 9.2E-07 | 5.4E-06 | 1.2E-04 | 1.2E-05 |
| **TcSNP1060** | 3.0E-06 | 6.4E-06 | 1.7E-05 | 1.1E-05 | 5.2E-07 | 3.1E-06 | 6.8E-05 | 4.4E-06 |
| **TcSNP1062** | 1.4E-06 | 3.0E-06 | 6.5E-06 | 4.3E-06 | 2.4E-07 | 1.4E-06 | 3.2E-05 | 1.7E-06 |
| **TcSNP1063** | 1.1E-06 | 2.3E-06 | 5.0E-06 | 3.3E-06 | 5.3E-08 | 3.1E-07 | 2.4E-05 | 1.3E-06 |
| **TcSNP1096** | 7.4E-07 | 1.6E-06 | 3.5E-06 | 9.2E-07 | 1.5E-08 | 2.2E-07 | 1.7E-05 | 3.7E-07 |
| **TcSNP1111** | 5.5E-07 | 1.2E-06 | 2.6E-06 | 6.9E-07 | 3.5E-09 | 1.6E-07 | 1.3E-05 | 2.8E-07 |
| **TcSNP1126** | 4.2E-07 | 9.1E-07 | 2.0E-06 | 5.3E-07 | 7.6E-10 | 3.5E-08 | 9.7E-06 | 2.1E-07 |
| **TcSNP1144** | 2.1E-07 | 4.4E-07 | 6.8E-07 | 1.8E-07 | 3.7E-10 | 1.7E-08 | 4.7E-06 | 7.2E-08 |
| **TcSNP1156** | 9.1E-08 | 2.0E-07 | 7.5E-08 | 2.0E-08 | 1.6E-10 | 7.7E-09 | 2.1E-06 | 3.2E-08 |
| **TcSNP1165** | 5.4E-08 | 1.2E-07 | 4.5E-08 | 7.0E-09 | 5.8E-11 | 4.6E-09 | 1.2E-06 | 1.1E-08 |
| **TcSNP1175** | 2.6E-08 | 4.0E-08 | 2.2E-08 | 3.4E-09 | 2.8E-11 | 8.0E-10 | 4.2E-07 | 1.9E-09 |
| **TcSNP122** | 9.9E-09 | 2.2E-08 | 1.2E-08 | 1.9E-09 | 1.1E-11 | 3.0E-10 | 2.4E-07 | 1.1E-09 |
| **TcSNP1242** | 7.6E-09 | 1.7E-08 | 9.4E-09 | 1.5E-09 | 2.3E-12 | 2.3E-10 | 1.8E-07 | 8.4E-10 |
| **TcSNP1253** | 6.3E-09 | 1.4E-08 | 7.8E-09 | 1.2E-09 | 3.8E-13 | 1.9E-10 | 1.5E-07 | 6.9E-10 |
| **TcSNP1392** | 4.8E-09 | 1.1E-08 | 5.9E-09 | 2.7E-10 | 2.9E-13 | 1.4E-10 | 1.2E-07 | 5.3E-10 |
| **TcSNP1414** | 3.0E-09 | 6.8E-09 | 3.7E-09 | 8.7E-11 | 9.6E-14 | 9.1E-11 | 7.3E-08 | 1.7E-10 |
| **TcSNP144** | 8.8E-10 | 2.0E-09 | 1.8E-09 | 1.8E-11 | 2.8E-14 | 1.9E-11 | 3.6E-08 | 3.7E-11 |
| **TcSNP1442** | 3.0E-10 | 9.7E-10 | 6.3E-10 | 6.2E-12 | 1.4E-14 | 3.3E-12 | 6.3E-09 | 1.2E-11 |
| **TcSNP1458** | 1.5E-10 | 4.7E-10 | 2.1E-10 | 3.0E-12 | 6.7E-15 | 1.1E-12 | 2.1E-09 | 2.2E-12 |
| **TcSNP1484** | 7.3E-11 | 2.4E-10 | 8.8E-11 | 1.3E-12 | 2.8E-15 | 4.6E-13 | 8.8E-10 | 9.0E-13 |
| **TcSNP150** | 3.7E-11 | 9.8E-11 | 4.4E-11 | 6.3E-13 | 1.1E-15 | 1.9E-13 | 3.6E-10 | 4.5E-13 |
| **TcSNP172** | 2.6E-11 | 6.8E-11 | 3.1E-11 | 1.7E-13 | 3.2E-16 | 1.3E-13 | 2.5E-10 | 1.2E-13 |
| **TcSNP174** | 2.0E-12 | 6.2E-11 | 2.8E-11 | 1.6E-13 | 2.9E-16 | 1.2E-13 | 2.3E-10 | 1.1E-13 |
| **TcSNP193** | 8.4E-13 | 3.1E-11 | 1.4E-11 | 6.6E-14 | 2.5E-17 | 6.1E-14 | 1.2E-10 | 4.7E-14 |
| **TcSNP226** | 7.0E-13 | 3.1E-11 | 1.2E-11 | 5.5E-14 | 4.1E-18 | 5.1E-14 | 9.6E-11 | 3.9E-14 |
| **TcSNP23** | 1.1E-13 | 2.6E-11 | 9.9E-12 | 4.6E-14 | 3.4E-18 | 4.3E-14 | 8.1E-11 | 3.3E-14 |
| **TcSNP230** | 4.7E-14 | 1.2E-11 | 4.4E-12 | 2.0E-14 | 1.5E-18 | 4.7E-15 | 3.6E-11 | 1.5E-14 |
| **TcSNP242** | 4.0E-15 | 5.9E-12 | 2.2E-12 | 8.5E-15 | 7.7E-19 | 2.4E-15 | 1.8E-11 | 6.0E-15 |
| **TcSNP25** | 3.4E-15 | 4.9E-12 | 1.8E-12 | 7.1E-15 | 1.2E-19 | 2.0E-15 | 1.5E-11 | 5.1E-15 |
| **TcSNP288** | 1.6E-15 | 2.3E-12 | 7.2E-13 | 1.0E-15 | 4.6E-20 | 7.8E-16 | 5.9E-12 | 7.1E-16 |
| **TcSNP316** | 1.1E-15 | 1.6E-12 | 5.0E-13 | 2.8E-16 | 1.3E-20 | 5.4E-16 | 4.1E-12 | 2.0E-16 |
| **TcSNP32** | 5.5E-16 | 4.7E-13 | 2.5E-13 | 1.4E-16 | 6.3E-21 | 1.1E-16 | 1.2E-12 | 4.2E-17 |
| **TcSNP329** | 4.2E-16 | 3.6E-13 | 1.9E-13 | 1.1E-16 | 4.8E-21 | 8.7E-17 | 9.2E-13 | 3.2E-17 |
| **TcSNP364** | 3.5E-16 | 3.0E-13 | 1.6E-13 | 8.7E-17 | 4.0E-21 | 1.4E-17 | 7.6E-13 | 2.6E-17 |
| **TcSNP372** | 7.6E-17 | 2.3E-13 | 1.2E-13 | 6.7E-17 | 8.7E-22 | 3.1E-18 | 5.8E-13 | 2.0E-17 |
| **TcSNP375** | 3.3E-18 | 1.4E-13 | 4.0E-14 | 4.2E-17 | 2.9E-22 | 2.0E-18 | 3.7E-13 | 1.3E-17 |
| **TcSNP395** | 3.0E-18 | 1.3E-13 | 3.7E-14 | 3.8E-17 | 2.6E-22 | 1.8E-18 | 3.4E-13 | 1.2E-17 |
| **TcSNP413** | 1.5E-18 | 3.8E-14 | 1.1E-14 | 1.9E-17 | 1.3E-22 | 5.3E-19 | 1.7E-13 | 5.8E-18 |
| **TcSNP430** | 7.0E-19 | 1.8E-14 | 5.0E-15 | 7.5E-18 | 5.1E-23 | 2.5E-19 | 2.3E-14 | 2.3E-18 |
| **TcSNP448** | 2.9E-19 | 9.0E-15 | 2.5E-15 | 3.1E-18 | 2.6E-23 | 1.0E-19 | 1.2E-14 | 9.3E-19 |
| **TcSNP469** | 1.3E-19 | 4.0E-15 | 1.1E-15 | 1.4E-18 | 1.1E-23 | 1.1E-20 | 5.2E-15 | 4.1E-19 |
| **TcSNP497** | 4.4E-20 | 1.4E-15 | 1.9E-16 | 2.4E-19 | 5.6E-24 | 3.9E-21 | 2.5E-15 | 7.2E-20 |
| **TcSNP521** | 2.2E-20 | 6.8E-16 | 9.7E-17 | 5.0E-20 | 2.8E-24 | 1.1E-21 | 7.5E-16 | 1.5E-20 |
| **TcSNP529** | 6.4E-21 | 2.0E-16 | 2.0E-17 | 2.5E-20 | 1.4E-24 | 5.7E-22 | 3.7E-16 | 3.2E-21 |
| **TcSNP547** | 1.6E-21 | 5.0E-17 | 1.0E-17 | 6.2E-21 | 6.9E-25 | 1.4E-22 | 1.9E-16 | 7.9E-22 |
| **TcSNP560** | 7.5E-22 | 2.3E-17 | 4.0E-18 | 2.4E-21 | 3.2E-25 | 5.5E-23 | 8.7E-17 | 3.1E-22 |
| **TcSNP60** | 7.5E-22 | 2.1E-17 | 3.6E-18 | 2.2E-21 | 2.9E-25 | 4.8E-24 | 7.9E-17 | 2.8E-22 |
| **TcSNP602** | 2.9E-22 | 1.0E-17 | 1.7E-18 | 8.6E-22 | 1.4E-25 | 1.9E-24 | 1.1E-17 | 1.1E-22 |
| **TcSNP606** | 2.5E-22 | 8.4E-18 | 1.4E-18 | 7.2E-22 | 1.2E-25 | 1.6E-24 | 9.3E-18 | 9.3E-23 |
| **TcSNP619** | 8.1E-23 | 2.8E-18 | 8.9E-19 | 4.5E-22 | 7.2E-26 | 9.9E-25 | 5.9E-18 | 5.8E-23 |
| **TcSNP645** | 3.8E-23 | 1.3E-18 | 3.5E-19 | 1.8E-22 | 2.8E-26 | 1.4E-25 | 8.2E-19 | 2.7E-23 |
| **TcSNP709** | 1.8E-23 | 5.1E-19 | 1.4E-19 | 8.3E-23 | 4.0E-27 | 2.0E-26 | 3.2E-19 | 1.3E-23 |
| **TcSNP723** | 1.6E-23 | 4.6E-19 | 1.2E-19 | 7.6E-23 | 3.7E-27 | 1.8E-26 | 3.0E-19 | 1.2E-23 |
| **TcSNP731** | 6.4E-24 | 1.8E-19 | 5.9E-20 | 1.1E-23 | 1.7E-27 | 2.5E-27 | 1.2E-19 | 5.5E-24 |
| **TcSNP75** | 1.5E-24 | 1.4E-19 | 4.4E-20 | 8.0E-24 | 1.3E-27 | 6.0E-28 | 8.6E-20 | 4.1E-24 |
| **TcSNP751** | 1.0E-24 | 9.4E-20 | 3.0E-20 | 5.6E-24 | 8.9E-28 | 1.7E-29 | 6.0E-20 | 2.8E-24 |
| **TcSNP761** | 8.0E-25 | 7.2E-20 | 2.3E-20 | 1.2E-24 | 6.8E-28 | 1.3E-29 | 4.6E-20 | 6.2E-25 |
| **TcSNP776** | 3.1E-25 | 3.4E-20 | 9.1E-21 | 4.8E-25 | 9.5E-29 | 1.8E-30 | 2.1E-20 | 2.4E-25 |
| **TcSNP799** | 2.5E-26 | 3.1E-20 | 8.3E-21 | 4.4E-25 | 8.8E-29 | 1.6E-30 | 2.0E-20 | 2.2E-25 |
| **TcSNP823** | 8.5E-27 | 1.5E-20 | 4.0E-21 | 1.5E-25 | 4.3E-29 | 7.9E-31 | 3.4E-21 | 7.6E-26 |
| **TcSNP836** | 5.3E-27 | 9.4E-21 | 2.5E-21 | 6.4E-27 | 1.4E-29 | 5.0E-31 | 2.1E-21 | 2.5E-26 |
| **TcSNP872** | 7.5E-28 | 4.4E-21 | 1.2E-21 | 9.1E-28 | 5.5E-30 | 2.3E-31 | 8.4E-22 | 1.2E-26 |
| **TcSNP878** | 4.7E-28 | 2.8E-21 | 7.5E-22 | 3.0E-28 | 1.8E-30 | 7.7E-32 | 5.2E-22 | 3.9E-27 |
| **TcSNP894** | 4.3E-28 | 2.5E-21 | 6.8E-22 | 2.7E-28 | 1.4E-31 | 7.1E-32 | 4.8E-22 | 3.6E-27 |
| **TcSNP899** | 2.4E-28 | 9.5E-22 | 3.9E-22 | 1.0E-28 | 5.4E-32 | 4.0E-32 | 2.7E-22 | 2.0E-27 |
| **TcSNP90** | 1.9E-28 | 7.3E-22 | 2.9E-22 | 7.9E-29 | 1.2E-32 | 8.7E-33 | 2.1E-22 | 1.5E-27 |
| **TcSNP917** | 9.3E-29 | 3.7E-22 | 1.5E-22 | 3.9E-29 | 5.9E-33 | 4.4E-33 | 5.2E-23 | 3.8E-28 |
| **TcSNP929** | 5.8E-29 | 2.3E-22 | 4.9E-23 | 1.3E-29 | 3.7E-33 | 2.7E-33 | 3.3E-23 | 1.3E-28 |
| **TcSNP944** | 4.9E-29 | 1.9E-22 | 4.1E-23 | 1.1E-29 | 5.7E-34 | 2.3E-33 | 2.7E-23 | 1.1E-28 |
| **TcSNP953** | 3.4E-29 | 1.3E-22 | 2.8E-23 | 3.0E-30 | 1.6E-34 | 1.6E-33 | 1.9E-23 | 3.0E-29 |
| **TcSNP994** | 1.3E-29 | 5.2E-23 | 1.1E-23 | 4.3E-31 | 6.2E-35 | 7.5E-34 | 7.4E-24 | 4.1E-30 |
| **TcSNP998** | 6.5E-30 | 9.1E-24 | 3.8E-24 | 1.5E-31 | 3.0E-35 | 2.5E-34 | 1.3E-24 | 1.4E-30 |
| **TcSNP999** | 2.7E-30 | 3.7E-24 | 1.9E-24 | 7.3E-32 | 1.2E-35 | 1.0E-34 | 5.3E-25 | 7.1E-31 |