**S3 Table.** Linkage Disequilibrium with pair of parsimony informative sites. Nucleotides represented in capital letters, are the sites in LD and corresponding positions of other species in represented in small letters. D: Linkage Disequilibrium, D’= Correlation Coefficient of the pairing SNPs, R2 = Coefficient of determination, χ2 = Chi square test, B = Bonferroni corrections, F= Fisher test, \*\*P<0.01, \*P<0.05.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Species /Accession |  |  | Sites |  |  |  | D | D’ | R2 | χ2 | F |
|  | 952\_1395 | | 822\_1061 | | 927\_1377 | |  |  |  |  |  |
| *F. tataricum* | |  |  |  |  |  | 0.247 | 1 | 1 | 9.000\*\*B | 0.008\* |
| Golden | G | C | a | c | c | - |  |  |  |  |  |
| Donan | G | C | a | c | c | - |  |  |  |  |  |
| FAG50 | G | C | a | c | c | - |  |  |  |  |  |
| Jakuar | C | T | a | c | c | - |  |  |  |  |  |
| PI481673 | C | T | a | c | c | - |  |  |  |  |  |
| GQ285125 | G | C | a | c | c | - |  |  |  |  |  |
| FTPI481672 | G | C | a | c | c | - |  |  |  |  |  |
| Chumoa | C | T | a | c | c | - |  |  |  |  |  |
| Chumey | C | T | a | c | c | - |  |  |  |  |  |
| *F. esculentum* | |  |  |  |  |  | 0.24 | 1 | 1 | 0.02\*B | - |
| Luba | c | C | G | C | t | g |  |  |  |  |  |
| Karmen | c | C | G | C | t | g |  |  |  |  |  |
| Svityazyanka | c | C | G | C | t | g |  |  |  |  |  |
| Koto | c | C | A | A | t | a |  |  |  |  |  |
| Koban | c | C | A | A | t | a |  |  |  |  |  |
| *F. dibotrys* | |  |  |  |  |  | 0.24 | 1 | 1 | 0.02\* | - |
| FDD1FAG142 | c | C | - | - | T | C |  |  |  |  |  |
| FCA1FAG135 | c | C | - | - | C | T |  |  |  |  |  |
| FCA3FAG135 | c | C | - | - | T | C |  |  |  |  |  |
| FCB3FAG135 | c | C | - | - | T | C |  |  |  |  |  |
| HM628904 |  |  |  |  | C | T |  |  |  |  |  |