

Table S4. F-statistics analysis in three different *L.chinense* populations(Eastern China region, Sichuan Province, Yunan-Guizhou region) and *L.tulipifera* populations

| Locus | <i>L. chinense</i> | | | | | | <i>L.tulipifera</i> | |
|-------|--------------------|--------|---------------|--------|---------------|--------|---------------------|--------|
| | Eastern China | | Sichuan Prov, | | Yunan-Guizhou | | Sample Size | Fst |
| | Sample Size | Fst | Sample Size | Fst | Sample Size | Fst | | |
| 1 | 24 | 0.0519 | 12 | 0.0244 | 18 | 0.1386 | 22 | 0.2 |
| 2 | 24 | 0.021 | 12 | 0 | 16 | 0 | 20 | 0.0361 |
| 3 | 26 | 0.1525 | 10 | 0.0286 | 18 | 0.5 | 24 | 0.25 |
| 4 | 26 | 0.311 | 10 | 0.1765 | 18 | 0.7391 | 24 | 0.3143 |
| 5 | 26 | 0.1446 | 12 | 0.0345 | 18 | 0.0959 | 24 | 0.0813 |
| 6 | 26 | 0.2934 | 12 | 0 | 18 | 0.5 | 24 | 0.0194 |
| 7 | 26 | 0.2419 | 12 | 0.1538 | 18 | 0.5234 | 22 | 0.4088 |
| 8 | 26 | 0.0681 | 12 | 0.0244 | 18 | 0.1468 | 24 | 0 |
| 9 | 26 | 0.0276 | 12 | 0 | 18 | 0 | 24 | 0.0538 |
| 10 | 26 | 0.0769 | 12 | 0 | 18 | 0.0971 | 24 | 0 |
| 11 | 26 | 0.0534 | 12 | 0.0345 | 18 | 0.1226 | 22 | 0.1043 |
| 12 | 26 | 0.1478 | 12 | 0.0877 | 18 | 0.0902 | 24 | 0.0559 |
| 13 | 24 | 0.1167 | 12 | 0.0244 | 18 | 0.1081 | 24 | 0.1607 |
| 14 | 24 | 0.0614 | 6 | 0.2308 | 18 | 0.2105 | 22 | 0.1111 |
| 15 | 26 | 0.1265 | 12 | 0.1786 | 18 | 0.113 | 24 | 0.0588 |
| 16 | 26 | 0.299 | 12 | 0.1636 | 18 | 0.4958 | 24 | 0.2787 |
| 17 | 26 | 0.0968 | 12 | 0.2727 | 18 | 0.1148 | 24 | 0.2593 |
| 18 | 26 | 0.0831 | 12 | 0.0909 | 18 | 0.0412 | 24 | 0 |
| 19 | 26 | 0.2633 | 12 | 0.2 | 18 | 0.5714 | 24 | 0.1429 |
| 20 | 24 | 0.1276 | 12 | 0.2 | 18 | 0.2208 | 22 | 0.3356 |
| 21 | 24 | 0.2683 | 12 | 0.1475 | 18 | 0.25 | 22 | 0.1789 |
| 22 | 26 | 0 | 12 | 0 | 18 | 0 | 24 | 0.1776 |
| 23 | 26 | 0 | 12 | 0 | 18 | 0 | 24 | 0 |
| 24 | 26 | 0.1092 | 12 | 0 | 18 | 0.4 | 22 | 0.4186 |
| 25 | 26 | 0.1043 | 12 | 0 | 16 | 0.5 | 24 | 0.0545 |
| 26 | 24 | 0.1034 | 12 | 0.0909 | 18 | 0.2672 | 24 | 0.1701 |
| 27 | 26 | 0.086 | 12 | 0.0385 | 18 | 0.1527 | 22 | 0.0361 |
| 28 | 26 | 0 | 12 | 0 | 18 | 0.25 | 24 | 0.5652 |
| 29 | 26 | 0.1204 | 12 | 0.0943 | 18 | 0.5 | 24 | 0.36 |
| Mean | 26 | 0.1307 | 12 | 0.0951 | 18 | 0.2428 | 23 | 0.1733 |