**Table S1 *P*-value for deviation from Hardy-Weinberg equilibrium for each locus in each population.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Locus | Population | | | | | | |
| LD | LP | LA | LSL | LSY | LSH | SJ |
| c119\_g1\_i1 | - | 1.0000 | 1.0000 | 0.0077\*\* | 0.2712 | 1.0000 | - |
| c251\_g1\_i1 | 0.0549 | 0.4361 | 0.0369\* | 0.2084 | 0.7790 | 0.2446 | 0.0092\*\* |
| c317\_g1\_i1 | 1.0000 | - | 1.0000 | 0.0066\*\* | 0.3096 | 1.0000 | - |
| c341\_g1\_i1 | 0.2618 | 0.0058\*\* | 0.0000\*\* | 0.1603 | 1.0000 | 0.0906 | 0.0007\*\* |
| c864\_g1\_i1 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0550 | 1.0000 |
| c1089\_g1\_i1 | 0.5403 | 0.0100\*\* | 0.0457\* | 0.0109\* | 0.0104\* | 0.1103 | 1.0000 |
| c870\_g2\_i1 | 0.7684 | - | - | - | - | - | 1.0000 |
| c679\_g1\_i1 | 1.0000 | 0.9650 | 0.0911 | 0.7684 | 0.6535 | 0.0049\*\* | 0.6752 |
| c792\_g1\_i1 | 1.0000 | 0.0003\*\* | 0.0000\*\* | 0.1488 | 1.0000 | 0.0041\*\* | 0.0016\*\* |
| c102\_g1\_i1 | 0.4061 | 0.0002\*\* | 0.0245\* | 0.0961 | 0.0122\* | 0.0415\* | 0.0000\*\* |
| c1157\_g2\_i1 | 0.0227\* | 0.1086 | 0.0073\*\* | 0.0003\*\* | 1.0000 | 0.0004\*\* | - |
| c1198\_g1\_i1 | 0.0000\*\* | 0.0000\*\* | 0.0000\*\* | 0.0103\* | 0.4147 | 0.1165 | 0.0020 |
| c1730\_g1\_i1 | 0.3766 | 0.2693 | 0.3501 | 0.0142\* | 0.3220 | 0.0555 | 1.0000 |
| c1747\_g1\_i1 | 0.3951 | 0.1631 | 0.0000\*\* | 0.1025 | 1.0000 | 0.0146\* | 0.0130 |
| c2017\_g1\_i1 | 1.0000 | 1.0000 | 1.0000 | 0.7464 | 1.0000 | 1.0000 | - |
| c2591\_g1\_i1 | - | 1.0000 | - | - | - | - | - |

**\* significant(*P* < 0.05); \*\* highly significant (*P* < 0.01)**