**Supporting table**

**Table S2.** Chi-square test analysis of the segregation ratios for resistance to *Meloidogyne graminicola* in F2 populations from IR64 x Zh11 crosses based on the full dataset and when excluding from the dataset individual samples with Rf values falling in the ±5% or 10% interval around the threshold value that defines resistance.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **IR64 x Zh11** | **Tested ratio** | **DF** | **Considering the full dataset** | | | | **Excluding values at threshold ±5%** | | | | **Excluding values at threshold ±10 %** | | | |
| **Observed** | | **Test of statistics** | | **Observed** | | **Test of statistics** | | **Observed** | **Test of statistics** | | |
| **R (Rf ≤ 0.64)** | **S (Rf > 0.64)** | **X2** | ***p* value.** | **R (Rf ≤ 0.608)** | **S (Rf > 0.672)** | **X2** | ***p* value.** | **R (Rf ≤ 0.576)** | **S (Rf > 0.704)** | **X2** | ***p* value.** |
| 154 | 88 | 154 | 88 | 153 | 88 |
| 3:1 | 1 |  |  | 16.67 | 0.00006 |  |  | 16.67 | 0.00006 |  |  | 17.048 | 0.00004 |
| 1:3 | 1 |  |  | 192.67 | <0.00001 |  |  | 192.67 | <0.00001 |  |  | 190.371 | <0.00001 |
| 9:7 | 1 |  |  | 5.37 | 0.03 |  |  | 5.37 | 0.03 |  |  | 5.13 | 0.024 |
| 7:9 | 1 |  |  | 38.89 | <0.00001 |  |  | 38.89 | <0.00001 |  |  | 38.14 | <0.00001 |
| 5:11 | 1 |  |  | 118.15 | <0.00001 |  |  | 118.15 | <0.00001 |  |  | 116.56 | <0.00001 |
| **11:5** | **1** |  |  | **2.95** | **0.089** |  |  | **2.95** | **0.089** |  |  | **3.11** | **0.078** |
| 13:3 | 1 |  |  | 49.28 | <0.00001 |  |  | 49.28 | <0.00001 |  |  | 49.92 | <0.00001 |
| 3:13 | 1 |  |  | 320.05 | <0.00001 |  |  | 320.05 | <0.00001 |  |  | 316.59 | <0.00001 |
| 15:1 | 1 |  |  | 374.53 | <0.00001 |  |  | 374.53 | <0.00001 |  |  | 376.731 | <0.00001 |
| 1:15 | 1 |  |  | 1,360.13 | <0.00001 |  |  | 1,360.13 | <0.00001 |  |  | 1,347.40 | <0.00001 |
| 63:1 | 1 |  |  | 1,905.56 | <0.00001 |  |  | 1,905.56 | <0.00001 |  |  | 1,914.17 | <0.00001 |
| 1:63 | 1 |  |  | 6,062.51 | <0.00001 |  |  | 6,062.51 | <0.00001 |  |  | 6,008.14 | <0.00001 |