**Supporting table**

**Table S3.** Chi-square test analysis of the segregation ratios for resistance to *Meloidogyne graminicola* in F2 populations from Nipponbare 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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nipponbare 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 ≤ 2.5)** | **S (Rf >2.5)** | **X2** | ***p* value** | **R (Rf ≤ 2.45)** | **S (Rf >4.95)** | **X2** | ***p* value.** | **R (Rf ≤ 2.25)** | **S (Rf >4.75)** | **X2** | ***p* value.** |
| 98 | 81 | 97 | 67 | 97 | 67 |
| 3:1 | 1 |  |  | 39.15 | <0.00001 |  |  | 21.98 | <0.00001 |  |  | 21.98 | <0.00001 |
| 1:3 | 1 |  |  | 84.49 | <0.00001 |  |  | 101.98 | <0.00001 |  |  | 101.98 | <0.00001 |
| **9:7** | **1** |  |  | **0.16** | **0.7** |  |  | **0.56** | **0.4** |  |  | **0.56** | **0.4** |
| 7:9 | 1 |  |  | 8.80 | 0.0033 |  |  | 15.80 | 0.00007 |  |  | 15.80 | 0.00007 |
| 5:11 | 1 |  |  | 46.01 | <0.00001 |  |  | 59.40 | <0.0001 |  |  | 59.40 | <0.0001 |
| 11:5 | 1 |  |  | 16.33 | 0.00004 |  |  | 7.04 | 0.007 |  |  | 7.04 | 0.007 |
| 13:3 | 1 |  |  | 82.52 | <0.00001 |  |  | 52.60 | <0.00001 |  |  | 52.60 | <0.00001 |
| 3:13 | 1 |  |  | 152.26 | <0.00001 |  |  | 175.67 | <0.00001 |  |  | 175.67 | <0.00001 |
| 15:1 | 1 |  |  | 464.69 | <0.00001 |  |  | 335.15 | <0.00001 |  |  | 335.15 | <0.00001 |
| 1:15 | 1 |  |  | 718.56 | <0.00001 |  |  | 783.15 | <0.00001 |  |  | 783.15 | <0.00001 |
| 63:1 | 1 |  |  | 2,221.34 | <0.00001 |  |  | 1,646.09 | <0.00001 |  |  | 1,646.09 | <0.00001 |
| 1:63 | 1 |  |  | 3,292.07 | <0.00001 |  |  | 3,535.61 | <0.00001 |  |  | 3,535.61 | <0.00001 |