**Table S3: Raw phenotypic data of a the Pi272560xTb36554 crossing population**

|  |  |  |  |
| --- | --- | --- | --- |
| F2 Genotype | HMC (48hai) | HMC (72hai) | Rating score |
| 3\_36 | 1.28 | 9.30 | 0.00 |
| 3\_53 | 0.77 | 2.00 | 0.00 |
| 3\_68 | 1.04 | 8.90 | 1.00 |
| 1\_17 | 1.73 | 9.80 | 0.00 |
| 1\_30 | 0.77 | 1.60 | 0.00 |
| 1\_49 | 1.00 | 4.10 | 2.00 |
| 1\_64 | 0.93 | 5.40 | 0.00 |
| 2\_20 | 0.83 | 6.40 | 0.00 |
| 2\_29 | 0.40 | 2.50 | 0.00 |
| 3\_1 | 4.43 | 2.80 | 0.00 |
| 3\_22 | 1.30 | 10.86 | 0.00 |
| 3\_37 | 1.35 | 17.80 | 0.00 |
| 3\_54 | 0.58 | 12.80 | 0.00 |
| 3\_72 | 0.72 | 6.30 | 0.00 |
| 1\_18 | 2.13 | 7.30 | 1.00 |
| 1\_32 | 2.07 | 9.90 | 1.00 |
| 1\_50 | 1.73 | 12.00 | 0.00 |
| 2\_6 | 2.24 | 10.00 | 2.00 |
| 2\_22 | 0.60 | 8.70 | 0.00 |
| 2\_32 | 1.41 | 6.20 | 0.00 |
| 3\_3 | 0.69 | 16.80 | 0.00 |
| 3\_24 | 0.86 | 12.10 | 0.00 |
| 1\_1 | 1.55 | 2.30 | 0.00 |
| 3\_38 | 1.89 | 4.90 | 0.00 |
| 3\_55 | 0.83 | 10.10 | 0.00 |
| 3\_76 | 1.00 | 5.20 | 0.00 |
| 1\_20 | 1.77 | 6.70 | 2.00 |
| 1\_38 | 1.30 | 5.50 | 0.00 |
| 1\_54 | 1.03 | 6.40 | 2.00 |
| 2\_7 | 1.67 | 4.90 | 0.00 |
| 2\_23 | 3.07 | 11.00 | 0.00 |
| 2\_33 | 2.57 | 8.80 | 1.00 |
| 3\_6 | 1.03 | 15.60 | 0.00 |
| 3\_27 | 2.37 | 9.40 | 2.00 |
| 1\_5 | 0.93 | 2.80 | 0.00 |
| 3\_41 | 1.23 | 7.80 | 0.00 |
| 3\_57 | 0.65 | 3.60 | 0.00 |
| 3\_77 | NA | 2.20 | 0.00 |
| 1\_21 | 1.67 | 6.70 | 1.00 |
| 1\_39 | 1.43 | 6.60 | 0.00 |
| 1\_55 | 0.53 | 1.60 | 0.00 |
| 2\_8 | 0.18 | 4.30 | 0.00 |
| 2\_38 | 1.97 | 7.50 | 0.00 |
| 3\_8 | 0.37 | 3.40 | 0.00 |
| 3\_29 | 1.07 | 12.10 | 0.00 |
| 1\_6 | 1.00 | 2.20 | 0.00 |
| 3\_46 | 0.67 | 11.90 | 1.00 |
| 3\_60 | 0.80 | 2.40 | 2.00 |
| 3\_79 | NA | 9.70 | 0.00 |
| 1\_22 | 0.93 | 8.70 | 0.00 |
| 1\_41 | 0.53 | 9.30 | 0.00 |
| 1\_58 | 0.93 | 2.30 | 0.00 |
| 2\_13 | 0.87 | 10.30 | 0.00 |
| 2\_25 | 0.57 | 7.80 | 0.00 |
| 2\_39 | 1.07 | 10.40 | 0.00 |
| 3\_11 | 1.13 | 8.50 | 0.00 |
| 3\_30 | 1.33 | 10.60 | 1.00 |
| 1\_7 | 1.10 | 2.80 | 0.00 |
| 3\_47 | 0.89 | 5.80 | 0.00 |
| 3\_61 | 1.17 | 1.90 | 0.00 |
| 4\_1 | NA | 6.80 | 0.00 |
| 1\_24 | 1.47 | 2.20 | 0.00 |
| 1\_42 | 0.63 | 7.00 | 0.00 |
| 1\_59 | 1.80 | 13.20 | 0.00 |
| 2\_14 | 1.77 | 6.60 | 0.00 |
| 2\_26 | 0.53 | 2.50 | 0.00 |
| 2\_40 | 3.10 | 2.00 | 0.00 |
| 3\_14 | 0.55 | 5.80 | 0.00 |
| 3\_31 | 4.59 | 8.70 | 1.00 |
| 1\_8 | 1.20 | 2.71 | 0.00 |
| 3\_49 | 5.23 | 6.60 | 0.00 |
| 3\_66 | 2.07 | 8.40 | 0.00 |
| 1\_26 | 0.51 | 2.20 | 0.00 |
| 1\_43 | 2.23 | 7.80 | 0.00 |
| 1\_61 | 2.20 | 7.00 | 0.00 |
| 2\_16 | 2.50 | 6.60 | 1.00 |
| 2\_27 | 0.27 | 9.70 | 0.00 |
| 2\_48 | 0.46 | 7.60 | 0.00 |
| 3\_16 | 3.23 | 8.40 | 0.00 |
| 3\_32 | 1.47 | 1.70 | 0.00 |
| 1\_11 | 0.50 | 2.20 | 0.00 |
| 3\_50 | 1.27 | 10.50 | 1.00 |
| 3\_67 | 2.77 | 11.20 | 0.00 |
| 1\_27 | 0.50 | 0.60 | 0.00 |
| 1\_47 | 2.00 | 6.90 | 0.00 |
| 1\_63 | 2.13 | 6.50 | 0.00 |
| 2\_18 | 3.47 | 9.30 | 2.00 |
| 2\_28 | 2.70 | 9.10 | 0.00 |
| 2\_50 | 0.70 | 15.90 | 0.00 |
| 3\_21 | 0.50 | 2.40 | 0.00 |
| 3\_35 | 0.37 | 1.50 | 0.00 |
| 5\_18 | 4.07 | 2.60 | 0.00 |
| 5\_41 | 3.73 | 1.50 | 0.00 |
| 5\_69 | 1.37 | 1.00 | 0.00 |
| 4\_16 | 0.83 | 3.00 | 0.00 |
| 4\_33 | 0.93 | 8.40 | 0.00 |
| 4\_45 | 1.10 | 1.40 | 0.00 |
| 4\_56 | 1.13 | 7.60 | 0.00 |
| 4\_73 | 0.50 | 1.80 | 1.00 |
| 4\_87 | 6.60 | 5.70 | 0.00 |
| 4\_96 | 4.77 | 1.10 | 2.00 |
| 5\_5 | 1.93 | 1.20 | 0.00 |
| 5\_22 | 1.80 | 8.40 | 1.00 |
| 5\_42 | 2.80 | 2.00 | 0.00 |
| 5\_70 | 2.97 | 6.80 | 0.00 |
| 4\_17 | 1.27 | 2.50 | 0.00 |
| 4\_34 | 1.37 | 1.20 | 0.00 |
| 4\_47 | 0.97 | 1.50 | 0.00 |
| 4\_57 | 1.30 | 7.10 | 0.00 |
| 4\_76 | 1.40 | 1.11 | 0.00 |
| 4\_88 | 2.53 | 3.67 | 2.00 |
| 4\_101 | 4.43 | 5.40 | 0.00 |
| 5\_7 | 2.40 | 1.60 | 0.00 |
| 4\_3 | NA | 2.00 | 0.00 |
| 5\_27 | 2.40 | 0.60 | 0.00 |
| 5\_45 | 7.93 | 1.40 | 0.00 |
| 5\_71 | 2.97 | 5.50 | 0.00 |
| 4\_20 | 1.10 | 2.00 | 0.00 |
| 4\_35 | 0.90 | 0.90 | 0.00 |
| 4\_48 | 2.67 | 2.30 | 0.00 |
| 4\_58 | 1.70 | 2.40 | 0.00 |
| 4\_77 | 1.10 | 1.78 | 1.00 |
| 4\_89 | 3.43 | 7.67 | 0.00 |
| 4\_102 | 3.20 | 5.50 | 0.00 |
| 5\_8 | 1.80 | 2.70 | 0.00 |
| 4\_4 | 1.30 | 1.20 | 0.00 |
| 5\_28 | 2.60 | 1.50 | 0.00 |
| 5\_46 | 1.33 | 1.60 | 1.00 |
| 5\_73 | 3.37 | 2.30 | 1.00 |
| 4\_21 | 0.83 | 2.10 | 0.00 |
| 4\_37 | 2.10 | 1.20 | 0.00 |
| 4\_50 | 2.97 | 1.80 | 0.00 |
| 4\_61 | 0.90 | 1.50 | 0.00 |
| 4\_79 | 0.93 | 2.10 | 0.00 |
| 4\_90 | 1.30 | 1.78 | 0.00 |
| 4\_103 | 4.43 | 1.90 | 0.00 |
| 5\_9 | 4.57 | 1.50 | 0.00 |
| 4\_5 | 1.37 | 1.60 | 0.00 |
| 5\_29 | 3.23 | 1.90 | 0.00 |
| 5\_47 | 5.07 | 4.70 | 2.00 |
| 5\_74 | 4.83 | 2.00 | 0.00 |
| 4\_27 | 1.23 | 7.90 | 0.00 |
| 4\_39 | 1.90 | 1.90 | 0.00 |
| 4\_51 | 0.87 | 2.20 | 0.00 |
| 4\_62 | 1.03 | 1.10 | 2.00 |
| 4\_83 | 2.23 | 1.50 | 0.00 |
| 4\_91 | 4.70 | 7.67 | 0.00 |
| 4\_105 | 1.70 | 1.60 | 0.00 |
| 5\_10 | 2.97 | 8.83 | 0.00 |
| 4\_7 | 0.97 | 2.40 | 0.00 |
| 5\_32 | 1.96 | 6.40 | 0.00 |
| 5\_49 | 5.80 | 1.70 | 0.00 |
| 5\_77 | 5.93 | 2.50 | 0.00 |
| 4\_28 | 0.93 | 1.80 | 0.00 |
| 4\_40 | 1.90 | 2.30 | 0.00 |
| 4\_53 | 1.23 | 2.10 | 0.00 |
| 4\_66 | 2.77 | 2.10 | 0.00 |
| 4\_84 | 1.43 | 5.10 | 0.00 |
| 4\_92 | 0.93 | 7.89 | 0.00 |
| 5\_2 | 2.33 | 1.11 | 0.00 |
| 5\_12 | 3.97 | 2.10 | 0.00 |
| 4\_10 | 1.40 | 2.20 | 0.00 |
| 5\_34 | 1.77 | 2.10 | 0.00 |
| 5\_60 | 5.80 | 1.60 | 0.00 |
| 4\_30 | 1.93 | 7.20 | 0.00 |
| 4\_41 | 1.23 | 1.60 | 2.00 |
| 4\_54 | 2.10 | 2.40 | 0.00 |
| 4\_69 | 0.47 | 7.80 | 1.00 |
| 4\_85 | 1.82 | 1.10 | 0.00 |
| 4\_93 | 8.67 | 1.20 | 0.00 |
| 5\_13 | 6.03 | 7.00 | 0.00 |
| 4\_14 | 1.77 | 2.30 | 0.00 |
| 5\_36 | 4.50 | 1.80 | 0.00 |
| 5\_67 | 2.80 | 2.10 | 1.00 |
| 4\_31 | 2.40 | 8.00 | 1.00 |
| 4\_44 | 2.60 | 1.30 | 0.00 |
| 4\_55 | 1.53 | 1.50 | 1.00 |
| 4\_70 | 3.40 | 8.56 | 0.00 |
| 4\_86 | 2.10 | 5.50 | 0.00 |
| 4\_94 | 2.03 | 2.40 | 1.00 |
| 5\_4 | 2.13 | 0.80 | 0.00 |
| 5\_17 | 2.87 | 1.60 | 0.00 |

\* Please note: HMC = Haustorial mother cells, hai = hours after inoculation, The phenotypic data was obtained as described previously in the material and methods section of the manuscript.