**Table S2:** The average and heterosis for different leaf traits among HY268

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Gene** | **LFW** | **LDW** | **LWC** | **LL** | **LW** | **LI** | **PL** | **LA** | **SLA** | **LTA** | **LBA** | **SD** | **SL** | **SW** |
| 9 | 0.281 | 0.101 | 64.20% | 4.57 | 3.90 | 1.17 | 1.03 | 20.67 | 204.450 | 124.00 | 245.00 | 2867 | 25.38 | 16.11 |
| 11 | 0.600 | 0.196 | 67.38% | 8.13 | 4.90 | 1.66 | 0.77 | 41.00 | 209.880 | 90.33 | 284.33 | 3900 | 24.39 | 11.52 |
| 23 | 0.373 | 0.131 | 65.06% | 4.77 | 4.50 | 1.06 | 1.17 | 35.67 | 277.220 | 121.67 | 253.33 | 2633 | 26.28 | 15.67 |
| 27 | 0.610 | 0.205 | 66.28% | 8.40 | 5.00 | 1.68 | 0.77 | 47.00 | 229.010 | 87.00 | 283.67 | 3200 | 24.89 | 12.60 |
| 32 | 0.454 | 0.157 | 65.47% | 5.10 | 5.10 | 1.00 | 1.53 | 34.67 | 222.960 | 124.67 | 240.67 | 2133 | 27.17 | 14.84 |
| 37 | 0.377 | 0.110 | 70.69% | 4.57 | 4.77 | 0.96 | 0.87 | 32.00 | 289.630 | 130.67 | 259.67 | 2800 | 27.79 | 13.91 |
| 59 | 0.549 | 0.181 | 66.95% | 7.37 | 4.77 | 1.55 | 0.83 | 41.33 | 228.200 | 101.67 | 287.00 | 3133 | 28.72 | 14.51 |
| 62 | 0.478 | 0.150 | 68.75% | 5.90 | 5.33 | 1.11 | 1.47 | 24.00 | 161.090 | 132.67 | 283.67 | 2300 | 27.78 | 13.14 |
| 71 | 0.640 | 0.219 | 65.64% | 7.27 | 5.37 | 1.36 | 0.83 | 45.67 | 208.740 | 124.33 | 278.67 | 2267 | 26.43 | 13.73 |
| 73 | 0.618 | 0.190 | 68.89% | 8.23 | 5.37 | 1.55 | 0.97 | 36.67 | 190.850 | 97.00 | 277.67 | 3267 | 24.15 | 14.54 |
| 87 | 0.636 | 0.212 | 66.46% | 8.83 | 4.70 | 1.88 | 0.73 | 54.00 | 251.600 | 90.67 | 295.00 | 5800 | 21.42 | 12.07 |
| 89 | 0.642 | 0.217 | 66.28% | 8.07 | 5.17 | 1.56 | 1.13 | 52.00 | 240.070 | 101.00 | 278.33 | 3767 | 22.73 | 12.26 |
| 93 | 0.826 | 0.244 | 70.43% | 9.67 | 6.07 | 1.59 | 1.10 | 58.33 | 240.020 | 98.33 | 295.67 | 5267 | 21.41 | 12.24 |
| 105 | 0.365 | 0.110 | 69.78% | 4.77 | 4.80 | 1.00 | 1.47 | 36.67 | 333.470 | 82.00 | 262.60 | 3133 | 24.48 | 14.58 |
| 108 | 0.215 | 0.070 | 67.28% | 4.07 | 3.80 | 1.07 | 1.80 | 19.67 | 280.980 | 72.67 | 213.33 | 2067 | 28.29 | 13.25 |
| 109 | 0.673 | 0.220 | 67.36% | 6.90 | 7.23 | 0.95 | 2.77 | 38.00 | 173.010 | 102.67 | 261.67 | 3600 | 26.69 | 17.03 |
| 8268 | 0.286 | 0.094 | 66.94% | 5.13 | 3.93 | 1.31 | 0.70 | 25.67 | 273.830 | 94.00 | 273.00 | 1533 | 31.82 | 15.63 |
| psn26 (♀) | 0.500 | 0.168 | 66.07% | 6.03 | 5.33 | 1.13 | 2.13 | 30.00 | 180.290 | 101.00 | 260.67 | 3233 | 25.85 | 16.23 |
| pus8 (♂) | 0.387 | 0.132 | 65.76% | 7.33 | 3.53 | 2.08 | 0.47 | 27.67 | 209.440 | 72.33 | 303.33 | 2933 | 25.15 | 13.94 |
| Hm | 14.32% | 10.00% | 2.07% | -1.65% | 12.42% | -17.76% | -10.00% | 31.16% | 21.20% | 20.50% | -4.60% | 2.40% | 1.45% | -7.33% |
| Ho | 1.40% | -1.79% | 1.83% | -10.37% | -6.57% | -36.54% | -45.07% | 26.07% | 12.76% | 3.40% | -11.31% | -2.35% | 0.08% | -13.86% |