**Table S3. Summary of sequence processing results using the Ribosomal Database Project (RDP) pyrosequencing pipeline.** The RDP pipeline initial process parameters were as follows: Forward primer max edit distance=2, maximum number of N’s=0, minimum sequence length=400, minimum read Q (exponential quality) score=20.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Site** | **Raw Seqs** | **Filtered Seqs** | **Seq Length** | **Primer Trimmer** | **N count >0** | **>400 Length Filter** | **Exp Quality Filter** |
| **1** | **Av-S-Sow** | 2228 | 1699 | 506 | 2 | 132 | 318 | 77 |
| **2** | **Av-S-Sow** | 9619 | 8044 | 489 | 19 | 377 | 740 | 439 |
| **3** | **Av-S-Sow** | 3796 | 2975 | 496 | 4 | 126 | 617 | 74 |
| **4** | **Av-S-Sow** | 19222 | 16039 | 497 | 40 | 770 | 1596 | 777 |
| **5** | **Av-S-Sow** | 22879 | 14402 | 504 | 20 | 1268 | 4988 | 2201 |
| **6** | **Av-S-Sow** | 8156 | 6740 | 512 | 9 | 306 | 908 | 193 |
| **7** | **Av-S-Sow** | 24604 | 21243 | 497 | 18 | 1392 | 689 | 1262 |
| **8** | **Av-S-Sow** | 4288 | 3250 | 507 | 8 | 201 | 706 | 123 |
| **9** | **Av-NS-Sow** | 4238 | 3356 | 495 | 0 | 143 | 628 | 111 |
| **10** | **Av-NS-Sow** | 2892 | 2302 | 515 | 9 | 143 | 396 | 42 |
| **11** | **Av-NS-Sow** | 2320 | 1687 | 502 | 3 | 122 | 424 | 84 |
| **12** | **Av-NS-Sow** | 5528 | 4484 | 491 | 14 | 251 | 533 | 246 |
| **13** | **Av-NS-Sow** | 14787 | 11451 | 504 | 11 | 806 | 2020 | 499 |
| **14** | **Av-NS-Sow** | 18303 | 14909 | 509 | 13 | 703 | 2273 | 405 |
| **15** | **Av-NS-Sow** | 15063 | 11753 | 507 | 26 | 735 | 2108 | 441 |
| **16** | **Av-NS-Sow** | 31183 | 22546 | 502 | 42 | 2129 | 5177 | 1289 |
| **17** | **Min-S-Sow** | 31443 | 25734 | 526 | 36 | 1247 | 3560 | 866 |
| **18** | **Min-S-Sow** | 34589 | 28726 | 517 | 43 | 1215 | 3689 | 916 |
| **19** | **Min-S-Sow** | 21437 | 16258 | 509 | 32 | 1203 | 3032 | 912 |
| **20** | **Min-S-Sow** | 13502 | 10949 | 520 | 22 | 461 | 1657 | 413 |
| **21** | **Min-S-Sow** | 9136 | 6740 | 509 | 14 | 535 | 1516 | 331 |
| **22** | **Min-S-Sow** | 7710 | 6148 | 518 | 5 | 329 | 1088 | 140 |
| **23** | **Min-S-Sow** | 45784 | 37350 | 498 | 36 | 1756 | 4521 | 2121 |
| **24** | **Min-S-Sow** | 4224 | 2976 | 507 | 6 | 257 | 797 | 188 |
| **25** | **Min-NS-Sow** | 8078 | 6044 | 505 | 18 | 402 | 1203 | 411 |
| **26** | **Min-NS-Sow** | 23996 | 19814 | 497 | 36 | 1033 | 2017 | 1096 |
| **27** | **Min-NS-Sow** | 6091 | 4910 | 496 | 7 | 203 | 878 | 93 |
| **28** | **Min-NS-Sow** | 2501 | 1877 | 509 | 3 | 135 | 419 | 67 |
| **29** | **Min-NS-Sow** | 2800 | 2213 | 517 | 4 | 132 | 391 | 60 |
| **30** | **Min-NS-Sow** | 1689 | 1111 | 506 | 2 | 107 | 506 | 63 |
| **31** | **Min-NS-Sow** | 58851 | 44431 | 508 | 82 | 3511 | 8203 | 2624 |
| **32** | **Min-NS-Sow** | 51977 | 37569 | 503 | 47 | 3698 | 8508 | 2155 |
| **33** | **Av-S-IC** | 31390 | 24843 | 503 | 39 | 1124 | 4551 | 733 |
| **34** | **Av-S-IC** | 12711 | 9335 | 508 | 10 | 589 | 2410 | 367 |
| **35** | **Av-S-IC** | 13972 | 11448 | 513 | 10 | 566 | 1667 | 281 |
| **36** | **Av-S-IC** | 7152 | 5784 | 517 | 10 | 238 | 958 | 162 |
| **37** | **Av-S-IC** | 16623 | 12139 | 506 | 23 | 967 | 2658 | 836 |
| **38** | **Av-S-IC** | 1649 | 1288 | 519 | 4 | 77 | 247 | 33 |
| **39** | **Av-S-IC** | 562 | 380 | 499 | 0 | 18 | 155 | 9 |
| **40** | **Av-S-IC** | 159 | 111 | 511 | 0 | 6 | 40 | 2 |
| **41** | **Av-NS-IC** | 632 | 470 | 510 | 2 | 41 | 107 | 12 |
| **42** | **Av-NS-IC** | 660 | 492 | 512 | 0 | 28 | 123 | 17 |
| **43** | **Av-NS-IC** | 29800 | 22476 | 506 | 37 | 1805 | 4147 | 1335 |
| **44** | **Av-NS-IC** | 16225 | 13186 | 513 | 29 | 630 | 1948 | 432 |
| **45** | **Av-NS-IC** | 29231 | 23603 | 497 | 44 | 1215 | 3763 | 606 |
| **46** | **Av-NS-IC** | 29916 | 24035 | 516 | 34 | 1332 | 3981 | 534 |
| **47** | **Av-NS-IC** | 29816 | 23907 | 515 | 40 | 1434 | 3632 | 803 |
| **48** | **Av-NS-IC** | 30479 | 25331 | 516 | 54 | 1119 | 3282 | 693 |
| **49** | **Min-S-IC** | 22262 | 15555 | 502 | 26 | 1550 | 4151 | 980 |
| **50** | **Min-S-IC** | 13104 | 10637 | 510 | 17 | 501 | 1682 | 267 |
| **51** | **Min-S-IC** | 31276 | 24937 | 498 | 32 | 1222 | 4424 | 661 |
| **52** | **Min-S-IC** | 49466 | 40291 | 519 | 39 | 2099 | 6146 | 891 |
| **53** | **Min-S-IC** | 49969 | 41095 | 517 | 22 | 2162 | 5618 | 1072 |
| **54** | **Min-S-IC** | 48788 | 40772 | 518 | 52 | 1924 | 4937 | 1103 |
| **55** | **Min-S-IC** | 51530 | 39640 | 514 | 76 | 2577 | 7560 | 1677 |
| **56** | **Min-S-IC** | 35448 | 29043 | 514 | 40 | 1405 | 4120 | 840 |
| **57** | **Min-NS-IC** | 40467 | 32141 | 498 | 46 | 1633 | 5743 | 904 |
| **58** | **Min-NS-IC** | 24282 | 19446 | 517 | 26 | 1130 | 3214 | 466 |
| **59** | **Min-NS-IC** | 13868 | 11250 | 514 | 9 | 667 | 1655 | 287 |
| **60** | **Min-NS-IC** | 8341 | 6713 | 515 | 13 | 368 | 1071 | 176 |
| **61** | **Min-NS-IC** | 46771 | 35565 | 509 | 50 | 2769 | 6972 | 1415 |
| **62** | **Min-NS-IC** | 44415 | 36306 | 512 | 43 | 1754 | 5277 | 1035 |
| **63** | **Min-NS-IC** | 30481 | 21993 | 502 | 38 | 2047 | 5207 | 1196 |
| **64** | **Min-NS-IC** | 20740 | 16675 | 515 | 25 | 836 | 2861 | 343 |

Sequencing read information with the number of raw pyrosequencing reads, processed sequences and average processed sequence length. Filters include: Primer trimmer allowing 0 mismatches, N count filter, length >400 bp filter and exponential quality filter (Q>20). Site abbreviations: Av – Avon, Min-Minippa, S-suppression, NS-non-suppression, Sow-sowing, IC-in-crop samples at 7 wks post sowing.