Table S1. 76 SNP loci and primer pairs for *Setosphaeria turcica*

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| Locus | Contig-SNP position | Forward Primer (5'-3') | Reverse Primer (5'-3') |
| L01 | 1-532966 | CACCGCACAGTCCTCAACTTT | TTAAAATTTGGCTTACCAGGACTTG |
| L02 | 1-2258635 | GCTACCTCTCGAAGAAAAGGAAGTC | TACCAGCTTTCTCAAAGACATCAAG |
| L03 | 1-2799230 | TAGTTTAACGTCCTTTTTCAGCCC | GTAACAGGTAGCCATACACCTCCC |
| L04 | 2-51559 | AAGAGCTTGCCTTGTTTGAGAGTTA | CTAAGCTCTAGCACGAGTACGAAGG |
| L05 | 2-1233702 | TAGCTGCGATCCACGAGTTAAGTA | GATGACTAGGCCATGTCGAAAAGT |
| L06 | 2-2069656 | TCAAGTTTGGAACGTTAATCTCCAT | TAGAACCGGCTAGAAGAGAAGTACG |
| L07 | 2-3138855 | CTAAGTTTAAAGAGGACGTGATTGT | TCAACGTTTAACAAAGGTACTAGGC |
| L08 | 3-86782 | GCAGAAATCTTTCATCAAAACTCGT | AAGAATACCGACAATACCCCCTCTA |
| L09 | 3-976275 | CCTGGTCGATATAGCAGCTCTAGG | GGAATGGGATTCTAAGCTACGTTT |
| L10 | 3-1859865 | ACGACGTACTAATCTACACCGATGG | CATGCTTATCCCTTTACTTGCTTTG |
| L11 | 3-2767063 | GGTGTAATTTACTGCCCAGGATCT | GATAGCCTTTGTCGGCAGAATAGT |
| L12 | 4-395896 | AGAGAAAGAAGAAAGAAGAAAGAAGAGC | CTGTAGTTGTTAAACGTGGAAAAGACAT |
| L13 | 4-1195115 | AGATAAAAATGCTCTTCTTAGCGGG | TTAAATAATTAAGGGGGTGAATGGC |
| L14 | 4-2013962 | TCAGTATCCCAACATCAAGTACGAA | CTGAAAGTCTTGTCTGACATGTTGC |
| L15 | 4-2818621 | AGAGATAGAGTCACAAGGAACGCC | GACATCATTTCCTAGTGTGCGACT |
| L16 | 5-118908 | GTTAGGCTTAAGAGAGAAGGCACA | GACCTCCTAAACTTAAGAGCTTAGCC |
| L17 | 5-788041 | ATATACCCCGCAGTATCACTTCAAA | CCACGTATGACCTCTTCTTTGCTA |
| L18 | 5-1616899 | GCACCAAAGACAGTAAAGGGAGTAA | TGTAAGTCTAGTAAGAGGTGCGGCT |
| L19 | 5-2306034 | TGAATCTCGCAAACTATTGCCTAC | TCTCCTAAGGCACTACAAGTTCTACC |
| L20 | 6-356581 | TGAATGTCAACGTCCAAACTCAAC | CTATAAGGGTGTGTGGCGGGTTAT |
| L21 | 6-1089782 | ACACTGTTTCAGATAAAGCTGGTGC | TAATGAAGCTGCCTTCTACTTACCG |
| L22 | 6-1690306 | GCTCTTAGGTTTTCTTACGTAACTCTT | GCCATAGACAACGCTTAAAAGAT |
| L23 | 6-2202372 | AAGGAGCTCAGCAGCAACAAG | GCACCTCCTTGCTTAGCACC |
| L24 | 7-418160 | CCTTCGTAGGCTTCTCTTAGTCCT | CTAGGGCACTGTTACCTAAGGGAC |
| L25 | 7-852881 | CCCACACTCCGACGATTACTACTAC | CAGTGTGTTTTCTGCGTCTCG |
| L26 | 7-1504161 | TCTACAGCTGCACTAACTAGGGTCC | AAAGACATGTTGATTGTGTGGTGTT |
| L27 | 7-2101471 | ATCTGCCTAAGGACTGCGTTGTAT | TAGGCTAAAATGCTCGCCTAATTT |
| L28 | 8-311165 | CAAGTCTATGCCCCACTTATTCCT | AGACGTTGCGTATGCTATTTCCTA |
| L29 | 8-824392 | CGTTTTAACAAAAAGGTTTACGGC | CTCTGTTGGTACTCTGCTGAAGTTG |
| L30 | 8-1414857 | GACAAACGGTGAGATGGCCTA | CACATCGACAGCACAACTTCC |
| L31 | 9-153530 | GAGAGAATCCTTGGTGAAGAGAAAA | GTTGGCTCGATAAGCTCCATATCC |
| L32 | 9-549664 | AAAGTTTTGTCCCACGCTAATCTC | ACTTTAACGCCACAATTAAGGTGC |
| L33 | 9-1137846 | CGACCATTGAAGTTATTAGCAGGAT | GCTGTGAAGATCTTTGCTCAAGATAA |
| L34 | 9-1664862 | GTTAAGAAGTGCTTGGGTAGGTCG | GCAGGCCTAAGAGAAAGAAGAATC |
| L35 | 10-504107 | TTCTACGTCTTCTGCTAGTTCAGC | GACTATTTAAAATCCTAGAGAAGGTAGG |
| L36 | 10-1007850 | GTAGAGATTGCTATCAAGACCCTCG | CTACCAAGAATTGTCAGTACAGGGC |
| L37 | 10-1504344 | CTTACTAGGCGTCTGTTGTTGGACT | GAATTAGTCTTCGATCTAAACGCCA |
| L38 | 10-1978944 | GCATGCATTTGATGACTAACGACT | ATGCTGTCGACCACACTCAACATA |
| L39 | 11-88127 | TAGCAAAGTGTTGGAGAAGTGTGAG | TATCCTTGAATTTGGAGTCTTGGTG |
| L40 | 11-780809 | GCCTCTTAATTTCTCTAAGCGTAATAGC | GCAGCCCCTTACACTACGTAAGAA |
| L41 | 11-1660295 | TGGCTTTTTATGGTGTACAAGACC | CAGACCAAGTCAGTCTCGACGTAT |
| L42 | 12-459017 | CCCCCTACTTATGATCCAAGCTAA | CCCACATACGCCATGTAAAATAAA |
| L43 | 12-1366430 | CCTTAGTTTTGATGGTTTAAGAGGC | TAAGCTGTATTCGGTTATTTGCGA |
| L44 | 13-198147 | CCTCTTATATACCTCGCGATTGCT | CGTACCTATTGCAGCACTAACTCTG |
| L45 | 13-887198 | TCAAAGTTACACTGGTATATGGCGA | ACTTGGCCTCCGATGTAAGTGT |
| L46 | 13-1528663 | CTATTGGAGACGGTGATCGACAT | ATAAATCTGCGACACGGCTTTT |
| L47 | 14-310822 | AAGAATAACGCGATAAGCGAAGTC | GCTTGGCATCTCTACCTATTCGAT |
| L48 | 14-759423 | GCTCTATCCATTCCATTGACATCTT | ATAAATGGTGGGAAGAGGGTGTAGT |
| L49 | 14-1206381 | AGCATGACGTTAAGCTGTGATAAAA | AGCAAAGAAACCTTCCTACTAGCG |
| L50 | 15-481165 | CAAAAGAAATTGTTGCGTCGTAAG | AAAAGACTAATCCAAAGTAGCCGC |
| L51 | 15-845551 | TATCAACAAGAACCCACATTACCCT | GTATTAGCAGACGACGACATATCCC |
| L52 | 15-1342388 | TGCAGCATCACTATCTTGGAAACT | GTTTCATGTGCCATAACAACATCG |
| L53 | 16-248152 | GTTCTCTAAGCGTTTTGCTAGATG | GAGCTATGGTGGAAAAAGAGATCC |
| L54 | 16-866400 | ATAGTACTGCTATTGTGCTGCGGTT | CCCTGCTGTCTAACATCTCTTCCT |
| L55 | 16-1240230 | AGGTGAATGCATACTCGTTAGTTAGG | TGCCTTATACAAAAGATCCTTACGC |
| L56 | 17-287484 | GGAGTAACCGGACTACCTTTTCAA | AGGCTTTCTGTTAGCTCGATCACT |
| L57 | 17-831816 | AAACGGCTACAAGATGGCG | ATAGCAAGTACAGCTGCAGAATGG |
| L58 | 17-1112393 | GAAGAATGGAGTTTCTCATTTCACG | CCGGGTCTAAACTCGTATTTCTCTT |
| L59 | 18-111419 | TTTATTCCTCTCGTCCTCATCCTC | GTATCATTTCGGTTTTCCAGGTTC |
| L60 | 18-593631 | AATTGAGCAAGTGGTATGCGTG | CATTCCATCATTCATCTACTCACCA |
| L61 | 19-71784 | GGACAAGGTCACGCTAGTAAAGGT | TAGGTGAGATTATCGTTCGAGCAG |
| L62 | 19-461680 | CTAGCCACACGCTCTATCCACAG | GTCTGCTGAGGCTCGAAATGAT |
| L63 | 19-779640 | ATTGAGGCTGTATCCCGCAGT | GCTGGTCCTCAGTCCAAAGTATCT |
| L64 | 20-131994 | ACAAACAAAACCAGCGTCACTTT | AACACCCCTCGTGTGTGATATTTT |
| L65 | 20-447203 | TGTCGAGCTTGTTATATTAACGGAA | AACACCATTACCTACAGTCTCGTCG |
| L66 | 20-829679 | AAAGCTGCGTACGCCTACTACTCT | GCCCCCTTCTTAAGCTAGTTAATTG |
| L67 | 21-14063 | GCGCGTTATTATCTATATATCAGCTCT | GACTAAAGCTAAGCTACTTTTATTGGAG |
| L68 | 21-458974 | TGCAGTCCAGTGATGTATGTATGC | GCCTGGAATAATGGGAGATTGTAG |
| L69 | 22-56000 | CGCTATTTAGAGCGTTCTTATGCC | TACCTTAGCAGGGGATGGATAGAC |
| L70 | 22-560832 | CGCTGCATGATCTAATTACAAAGG | GGGTTTTAGCTTCTCGATTGATCT |
| L71 | 23-87112 | GATGATCTTGCGACTTACTGCCTA | TGTTTTAGTTTGGCTCTCCCTCTT |
| L72 | 24-484964 | TTTTTGTACCAGTAGCAGCCGAC | CATTCAGACCTCGTAACCAAACAC |
| L73 | 26-263600 | TAAAGCACTTTGTCAAGCATACGG | GCTGGAGTAGGTGAGATGAGTGAG |
| L74 | 27-91353 | AGTCTTTTACTGTACGGTCCACCC | AAGAGAAGGTGATCAGAGCTTTCG |
| L75 | 28-48379 | TGGGCGTACTATTGGTTAATCCTT | ATAGCACTTCGCAAACAATCTCAC |
| L76 | 29-25741 | AAGCGCTTTGGTGTACATGCT | AGCTTACATTCACCGCACTCAAC |