

1(D1): GTGGCGAGACATATCCTGGTGACGGCCAGTACACCATAACATTGGCCTTGTGGACATGTCAAGTGCAAGTATGCGCTTCTCGGTATCGAGCCTTGTA : 197  
1(D1), 2(G1), 6(O1), 8(F1) and 18(T1): GTGGCGAGACATATCCTGGTGACGGCCAGTACACCATAACATTGGCCTTGTGGACATGTCAAGTGCAAGTATGCGCTTCTCGGTATCGAGCCTTGTA : 197

1(D1): GATTCTTGATTGCCAGTCCGTCAGGAAGAGCTGTGTGGTGTCTGAAGAATGAGCCTGAGCGCAGAGTGGAGGTTGGCAGCGAGCTAGCTACCGTTGG : 194  
1(D1), 2(G1), 6(O1), 8(F1) and 18(T1): GATTCTTGATTGCCAGTCCGTCAGGAAGAGCTGTGTGGTGTCTGAAGAATGAGCCTGAGCGCAGAGTGGAGGTTGGCAGCGAGCTAGCTACCGTTGG : 189

1(D1): CAATATCAGGCTCTGTCGTGAACGCTTAAAGGAAATGTACATCTCAATCAAGATTAGGGGTGGCTTACAAACGCAATGAGAGATGTTGAGCTG : 291  
1(D1), 2(G1), 6(O1), 8(F1) and 18(T1): ----- : 291

1(D1): GGTCAATGATTGAGATGTAATATCACAATAAATAAGGAGGCTTTCCAATTCTCCCTTCCCGTCGATTACACAAATCAACTTACTGTGCAATTGAA : 388  
1(D1), 2(G1), 6(O1), 8(F1) and 18(T1): ----- : 388

1(D1): CGGGAAGTTAACTTATCATACTTCTCTACAGGATTTATTACTATCAATATATATAAGTCGATTACACAAATCAACTTACTGTGCAATTGAACGGGA : 485  
1(D1), 2(G1), 6(O1), 8(F1) and 18(T1): ----- : 485

1(D1): AGTTAACTTATCATACTTCTCTACAAATACCATGATAGTGACGAGCTCAGCAGGAACATCAAGGCATATCTAGGTATCAATAGACTGCATTAAATGGC : 582  
1(D1), 2(G1), 6(O1), 8(F1) and 18(T1): ----- : 582

1(D1): AGCTCGTTGTGACGGTCAAGTATTGTAATGTGGAGCGGGCCATGTGGCCGTGATGTTGGTCGTTTTGACACAGCAGCGGGCATACGGGAATGAAGCA : 679  
1(D1), 2(G1), 6(O1), 8(F1) and 18(T1): AGCTCGTTGTGACGGTCAAGTATTGTAATGTGGAGCGGGCCATGTGGCCGTGATGTTGGTCGTTTTGACACAGCAGCGGGCATACGGGAATGAAGCA : 679

1(D1): GATCTTCTTTCAACAGCACTGACGTACCGCACTCTACTGGCAGTGGATAAAGCTGGATCCACATATGTTGCCGAAACATCGCATGCAGCTTG : 772  
1(D1), 2(G1), 6(O1), 8(F1) and 18(T1): GATCTTCTTTCAACAGCACTGACGTACCGCACTCTACTGGCAGTGGATAAAGCTGGATCCACATATGTTGCCGAAACATCGCATGCAGCTTG : 772

**Supplementary Fig. S3.** Alignment of the sequenced PCR product obtained using the primer set 14425 indicating the pathotype 1(D1)-specific 772 bp with 326 bp insertion (between 190 bp and 516 bp position) in the 446 bp which was common to all of the five German pathotypes 1(D1), 2(G1), 6(O1), 8(F1) and 18(T1). The 7 bp and 65 bp sequence repeats are indicated in the 326 bp insertion.