**Table S1. Characteristics of the six microsatellite loci used to study of *Rhopalosiphum padi***: locus name, central repeat motif, locus-specific hybridization temperature (Ta), and the number of alleles amplified within each microsatellite locus.

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| --- | --- | --- | --- | --- | --- |
| **Locus** | **Repeat motif** | **Primer sequence** | **Ta** | **N. of alleles** | **Size range** |
| *R5.10* | (CA)3AC(AG)6(ATT)3…(GA)15 | F:CCGACTAAGCTTAATATTGTTTG  R:CGGTTCGGAGAACATAAGAG | 60 | 8 | 256-274 |
| *R2.73* | (GT)25CG(ATT)4 | F:GTCGTTTCTGGTCAGCGGCC  R:GTCGTTTCTGGTCAGCGGCC | 60 | 6 | 262-285 |
| *R5.29.b* | (AC)13 | F:CATGCGTGTGTCCCTTTTAAC  R:GATGGACGAGGGGACAC | 60 | 17 | 161.216 |
| *R3.171* | (AT)2T(AT)9…(AC)11 | F:TGTACATCGTAAGACGTAAAACGAC  R:CAAAGCAATACCTCATAACG | 60 | 15 | 214-252 |
| *R5.138* | (CA)35 | F:TATACACGCTCGCGCTTACG  R:CCGAGCACGAATTATTCC | 60 | 20 | 211-287 |
| *R5.50* | (AC)22 | F:TGTTACGCGGAGTGTGTAGG  R:CCACAGAGCGTTGTGCATC | 60 | 25 | 297-403 |