**Table S2. Primer sequences used for *PHYB* alleles amplification and sequencing.**

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| **Segment** | **Primer Sequence** |
| Segment 1 Amplification  (N terminal, 2190bp) | F: ATAGCCCACTTCAGCTTTCTCCCA  R: TTCTCCCATGGTAGGCTTCTGCTT |
| Segment 1 Sequencing | ATAGCCCACTTCAGCTTTCTCCCA  AGCTTCGACTACTCCCAGTC  ACACAGTCGTGGAGCATGTT  CCCCCGCCCGCGCGGGACGT  CTCGGAGGACGGCGTGGGCG  CATGACACGGTCGTAACCCG  TTCTCTGACAGCTGATGCGC  TTCTCCCATGGTAGGCTTCTGCTT |
| Segment 2 Amplification  (middle, 3693bp) | F: TTTCTCATGCAGGCATTTGGGCTG  R: AGGGATTTGAGTTTCCGTGCAAGC |
| Segment 2 Sequencing | TTTCTCATGCAGGCATTTGGGCTG  TTTTGGTTTCGGTCACACAC  CATCATCCTTATCCTCAGGG  GCTACTCTCACGAGCTTTAA  CCGGTGCTTATAACTAGCAG  TCGAGAGGTGAAGTTGTTGG  GATGATCAGAGGCAGTTCCT  TAAGGCTTGCCGCTGATACC  AAAAAAGTGCATAGTGGGGG  GCACTCCGCAATTCTCATAT  CTCCTGTGACTAGCTAACAC  GGCCCTTGAGTCGACAAAAA  CTTGGACATCTGTTTCTCAC  GTACCCAGTGCTGAGAGCA  TCAGTTCACAAGGCTATTCC  AGGGATTTGAGTTTCCGTGCAAGC |
| Segment 3 Amplification  (C terminal, 4358bp) | F: CAAGCGCTGAAATACAGCAAGCCT  R: TTAGCCAGCTTACAGCCCACCATA |
| Segment 3 Sequencing | CAAGCGCTGAAATACAGCAAGCCT  TCAAGGCTACTCCAGGCTCAAGTT  ATTGGCTGAGAGAGAAGCAGTCCA  AAAAAAGTGCATAGTGGGGG  TCAGTTCACAAGGCTATTCC  GGTTCATTGGTCCAGTGTTT  TTACTTCAACCTTTGGCTGG  CAGTATCAGAAGGCAACAGT  AGAGAGGAAAAGACCTCTGC  ACTGACCCCACCTAACTTCT  GGCTGACAACAGCATTCATA  CTTGCTTGGGACTAAAAGGC  CCAATGTGTGAGCTCAACCA  GGCTTTAACGTCGACTTTTG  TCAGGGACCTAAGTTACCTA  TTAGCCAGCTTACAGCCCACCATA |