**Supplementary Table6** The PCR amplification primer sequence and amplification program of five successfully amplified high-variability sites barcode

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| **Regions** | **Primer pairs** | **Sequence 5´-3´** | **Thermocycling conditions** |
| *trnC-petN* | F | CGG AGA AGT ATA AGC CTA TCG | 94 ℃ 3 min; [35 cycles: 94 ℃ 60 s, 52 ℃/52 ℃/54 ℃/54 ℃/55 ℃ 30 s, 72 ℃ 80 s]; 72 ℃ 10 min |
| R | ACC ATT AAA GCA GCC CAA G |
| *psaC-ndhE* | F | AGA CAC CAG ACG AAG CA |
| R | CCG AAG CAT CTA TTG GAC T |
| *Rpl32-trnL* | F | AGG GTG TGT ATA TTG GGT TT |
| R | TAA GAG CAG CGT GTC TAC |
| *ndhC-trnV* | F | GGG TGC TCC TTC TTA CAA A |
| R | GAT TCC GTC GAT TAG ATT ACT C |
| *trnS-trnG* | F | TTA GTC CAC TCA GCC ATC T |
| R | GAG ACG CAA TCA AGA TAG GA |