**Table S8.** Characteristic of eight microsatellite loci for 60 colonies of *P. verweyi* between collected at NPP Outlet and Wanlitung

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| GenBank Accession no. | Locus | Primers sequences | Repeats | Size of alleles | Tm (℃) | No. alleles | HE |
|  | PV9 | F:†CAACTTAAATGGTATCATCGTGR: GTGCCCTATTTTATGTGACAA | (AG)26 | 140-168 | 50 | 9 | 0.85 |
|  | PV19 | F:†TAGTCAGTGGCATCTGAGAGTR: CTCATTTCCTCCTAAGCTTTC | (TG)30 | 161-197 | 53 | 16 | 0.83 |
|  | PV22 | F:†TCACTTGCTATAACCTTCTCCTR:TCCACCTCTCCAACTAGTTATC | (TG)12 | 140-164 | 50 | 10 | 0.86 |
|  | PV56 | F:†TTGACTCGTCAATCACCTATCR: GCTAGCACTGATCAAACGAT | (TC)14 | 144-166 | 50 | 6 | 0.75 |
|  | PV57 | F:†ACAGACAGAGACAGACAGAACAR: CAGTTCACCTGTCCATTTG | (TC)14 | 103-119 | 50 | 6 | 0.60 |
| KM362854 | Plsi4.02 | F:†ACAATTCGGATATGTAGCR:GTTTCTTTGGTTTGGTTTGTTCTC | (AAAC)11 | 136-170 | 50 | 14 | 0.85 |
| KM362856 | Plsi4.24 | F:†TTATCTTGGTTCAGACAGACAGR:GTTTGACAACTCTAATGAAGGTCAG | (ACAG)10 | 126-158 | 59 | 9 | 0.77 |
| AY397648 | PD31 | F:†GACAAGTAATGTGTAAATCGTTGTCCR:†CTGTTAGAGTATCATGTCCTGAAGC | (CCAT)7 | 156 | 56 | 7 | 0.54 |

†primer attached M13 (-21) tail (5’- TGT AAA ACG ACG GCC AGT -3’) (18 bp).