**Supplementary table 2.** Accession number and percentage identity of isolates for analysis of *Dysmicoccus brevipes* and pineapple mealybug wilt-associated virus 1, 2 and 3.

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| --- | --- | --- | --- |
| Species | Country/Location | % of identity | Accession number |
| *Dysmicoccus brevipes* | India | 98.29 | MZ827857.1 |
| *Dysmicoccus brevipes* haplotype QH | China | 98.29 | JQ277214.1 |
| *Dysmicoccus brevipes* haplotype QH | China | 98.29 | JX228128.1 |
| *Dysmicoccus brevipes* haplotype QJ | China: Qujie | 98.29 | JX228127.1 |
| *Dysmicoccus brevipes* haplotype QJ | China | 98.29 | JQ277213.1 |
| *Dysmicoccus brevipes* | Taiwan | 98.29 | KP875975.1 |
| *Dysmicoccus brevipes* | Japan: Okinawa | 97.88 | LC121516.1 |
| *Dysmicoccus brevipes* | Japan: Okinawa | 97.46 | LC121517.1 |
| *Dysmicoccus brevipes* | Brazil | 96.27 | KF804144.1 |
| *Dysmicoccus brevipes* haplotype HI | USA | 96.27 | JQ277217.1 |
| *Dysmicoccus brevipes* haplotype HI | USA: Hawaii | 96.27 | JX228131.1 |
| *Dysmicoccus brevipes* haplotype H1 | France | 96.15 | GU134673.1 |
| *Dysmicoccus brevipes* | Japan: Okinawa | 95.34 | LC121515.1 |
| *Dysmicoccus brevipes* haplotype WN1 | China | 95.06 | JQ277215.1 |
| *Dysmicoccus brevipes* haplotype WN2 | China | 95.06 | JQ277216.1 |
| *Dysmicoccus brevipes* haplotype WN1 | China: Wanning | 95.06 | JX228129.1 |
| *Dysmicoccus brevipes* haplotype WN2 | China: Wanning | 95.06 | JX228130.1 |
| *Dysmicoccus neobrevipes* haplotype BL | China | 80.00 | JQ277218.1 |
| *Dysmicoccus neobrevipes* haplotype XS | China: Zhanjiang | 75.68 | JX228133.1 |
| *Dysmicoccus neobrevipes* haplotype JM | China: Xuwen | 75.68 | JX228132.1 |
| *Dysmicoccus neobrevipes* | Japan: Okinawa | 75.68 | LC121514.1 |
| Pineapple mealybug wilt-associated virus 1 | Cuba: Ciego de Avila | 97.08 | HQ129930.1 |
| Pineapple mealybug wilt-associated virus 1 | Cuba: La Habana | 96.49 | JX645771.1 |
| Pineapple mealybug wilt-associated virus 1 | Mexico: Isla Veracruz | 96.49 | KC800714.1 |
| Pineapple mealybug wilt-associated virus 1 | Taiwan | 96.49 | EU769113.1 |
| Pineapple mealybug wilt-associated virus 1 | Taiwan | 96.49 | LC507819.1 |
| Pineapple mealybug wilt-associated virus 1 | Thailand | 96.49 | EF620774.1 |
| Pineapple mealybug wilt-associated virus 1 | Thailand: Prachuabkirikhan | 96.49 | HE583225.1 |
| Pineapple mealybug wilt-associated virus 1 | China | 96.49 | KJ872494.1 |
| Pineapple mealybug wilt-associated virus 1 | USA | 96.49 | MH704740.1 |
| Pineapple mealybug wilt-associated virus 1 | Thailand | 96.32 | KT322156.1 |
| Pineapple mealybug wilt-associated virus 1 | Ghana | 96.32 | MN427634.1 |
| Pineapple mealybug wilt-associated virus 1 | Thailand | 95.91 | KT322162.1 |
| Pineapple mealybug wilt-associated virus 1 | USA: Hawaii | 95.91 | AF414119.3 |
| Pineapple mealybug wilt-associated virus 1 | Peru | 94.08 | OM388424.1 |
| Pineapple mealybug wilt-associated virus 2 | Thailand: East | 99.29 | HG940515.1 |
| Pineapple mealybug wilt-associated virus 2 | USA | 99.12 | MH704741.1 |
| Pineapple mealybug wilt-associated virus 2 | Taiwan | 99.12 | EU769115.1 |
| Pineapple mealybug wilt-associated virus 2 | Thailand | 99.12 | KT322166.1 |
| Pineapple mealybug wilt-associated virus 2 | Thailand: Prachuabkirikhan | 99.12 | HE583226.1 |
| Pineapple mealybug wilt-associated virus 2 | Ghana | 98.92 | MN427645.1 |
| Pineapple mealybug wilt-associated virus 2 | Taiwan | 98.76 | LC507822.1 |
| Pineapple mealybug wilt-associated virus 2 | Cuba: Isla de la Juventud | 98.76 | FN825676.1 |
| Pineapple mealybug wilt-associated virus 2 | Cuba: Ciego de Avila | 98.76 | JX508637.1 |
| Pineapple mealybug wilt-associated virus 2 | Peru | 98.62 | OM388425.1 |
| Pineapple mealybug wilt-associated virus 2 | Cuba: La Habana | 98.41 | JX645772.1 |
| Pineapple mealybug wilt-associated virus 2 | USA: HI | 98.41 | MN539273.1 |
| Pineapple mealybug wilt-associated virus 3 | Peru | 99.20 | OM388426.1 |
| Pineapple mealybug wilt-associated virus 3 | Cuba: Ciego de Avila | 98.50 | JX508636.1 |
| Pineapple mealybug wilt-associated virus 3 | Cuba: Isla de la Juventud | 98.07 | GU563497.1 |
| Pineapple mealybug wilt-associated virus 3 | Ghana | 98.02 | MN427640.1 |
| Pineapple mealybug wilt-associated virus 3 | Ghana | 97.86 | MN427641.1 |
| Pineapple mealybug wilt-associated virus 3 | Australia | 97.64 | EF488755.1 |
| Pineapple mealybug wilt-associated virus 3 | Taiwan | 97.21 | FJ209047.1 |
| Pineapple mealybug wilt-associated virus 3 | USA: HI | 97.21 | MN539274.1 |
| Pineapple mealybug wilt-associated virus 3 | USA | 97.21 | MH704742.1 |
| Pineapple mealybug wilt-associated virus 3 | Taiwan | 94.64 | LC507820.1 |
| Pineapple mealybug wilt-associated virus 3 | Thailand: Prachuabkirikhan | 86.83 | HE583227.1 |
| Pineapple mealybug wilt-associated virus 3 | Australia | 86.80 | EF488754.1 |