**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 |